

Titles and illustrations in boldface

## A

- A&M Records: Studio **53 Jun**  
 AA see Alcoholics Anonymous  
 Abd al-Rauf al-Balawi, Muhammad **97 Jun**  
 Abell, Sam, photographer: **The Gift of Gardening**. By William S. Ellis. 52-81, **May**  
 Able (atomic test) **72 Jun**; Map **75 Jun**  
 Aboriginal people of Australia: **The Simpson Outback**. By Jane Vessels. Photos by Medford Taylor. 64-93, **Apr**  
 Acetaldehyde: Metabolization, following alcohol consumption 15, 27, 30 **Feb**  
 Acid rain: **Even in Spring, Leaves Fall—Some Forever**. Earth Almanac. **Apr**; Russia 16 **Jun**  
 Ackerman, Diane, author: **Last Refuge of the Monk Seal**. Photos by Bill Cutsinger. 128-144, **Jan**  
 Aconcagua, Mount, Argentina: Inca sacrificial victim 95, **103 Mar**; Ridge **92-93 Mar**  
 Adler, Lou **62 Jun**  
 Africa: **Africa's Skeleton Coast**. By Des and Jen Bartlett. 54-85, **Jan**; **Apelike Jaw—Clue to Human Origins?** Geographica. **Mar**; **Captives in the Wild**. By Craig Packer. NGS research grant. 122-136, **Apr**; **A Curious Kinship: Apes and Humans**. By Eugene Linden. Photos by Michael Nichols. 2-45, **Mar**; Satellite image showing dust clouds 48 **May**; see also Namib Desert; Zaire  
 African Americans: **From Civil War Camp to Resort Community**. Geographica. **Jun**; Miami community 100, 105, 109-110 **Jan**; **Park Service to Mark the Road to Freedom**. Geographica. **Apr**  
 Agarunova, Jaffa **48 Feb**  
 Agosto, Aldo 9, 12 **Jan**  
 Agriculture: Origins theory **7 Feb**; **Spain in the Americas**; **The Grand Exchange** map supplement. **Feb**; see also Farms  
 Ahwal, Hanneh **109 Jun**  
 AIDS research: Chimpanzees 29, 30, 30-31, 42, 44-45 **Mar**  
 Air pollution: **California Puts a Charge Into Electric Carmakers**. Earth Almanac. **Jan**; **Even in Spring, Leaves Fall—Some Forever**. Earth Almanac. **Apr**; **Persian Gulf Pollution: Assessing the Damage One Year Later**. By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, **Feb**; **Yucca: A Breath of Fresh Air Down on the Farm**. Earth Almanac. **Mar**  
 Aircraft: **It's a Plane! It's a Boat! It's a Record Holder!** Geographica. **May**; **Skies to Become Quieter, Cleaner—and Costlier**. Earth Almanac. **Jun**;  
 U.S.S. Macon: **Lost and Found**. By J. Gordon Vaeth. 114-127, **Jan**; see also Drifters; Lockheed Electra  
 Aircraft carriers: **U.S.S. Macon: Lost and Found**. By J. Gordon Vaeth. 114-127, **Jan**; see also *Saidor*; *Saratoga*  
 Akron, U.S.S. (airship) 118, 120 **Jan**  
 Alans people 93 **May**  
 Alaska: **Bear of an Issue Surfaces Over Arctic Drilling**. Earth Almanac. **Mar**; On Television. **Apr**  
 Alaverdi, Republic of Georgia: Georgian Orthodox cathedral **90-91 May**  
 Al-Awadhi, Abdul Rahman 133 **Feb**  
 Albero, Vicente 28 **Apr**  
 Alcántara, Martín de 120, 121 **Feb**  
 Alcohol: **Alcohol, the Legal Drug**. By Boyd Gibbons. Photos by George Steinmetz. 2-35, **Feb**; **Babies Cry Out: Garlic, Yes; Alcohol, No**. Geographica. **May**; **Fetal Alcohol Syndrome: The Preventable Tragedy**. By George Steinmetz. 36-39, **Feb**  
 Alcoholics Anonymous (AA): Alkali Lake Indian reserve chapter 35 **Feb**; Membership 9, 30 **Feb**; Origins 9, 30 **Feb**; Russian program 8, 29-30 **Feb**  
 Aldecoa, José Antonio 23 **Apr**  
 Alexander, Allan 63, 65 **Jun**  
 Alexander, David J. 110 **Jan**  
 Algae: **A Bloom of Algae as Big as Britain**. Geographica. **Apr**  
 al-Ghusein, Jaweed, and daughter **109 Jun**  
 Alhambra, Granada, Spain **36-37 Jan**  
 Al-Idrisi 21 **Jan**  
 Alien to Olympic Park, Mountain Goats **May Go**. Earth Almanac. **Jun**  
 Alkali Lake Indian reserve, British Columbia, Canada: Battle against alcoholism 34-35 **Feb**  
 Allen, Barbie 133 **Apr**  
 Allen, Jack **67 Jun**  
 Allen House inn, Cuttyhunk Island, Mass. 118, 125, 128 **Jun**  
 Alligators 35-36 **Apr**; **Eastern Wildlife—Bittersweet Success**. By James Kenway. Portfolio text by Michael Conna. Photos by Raymond Gehman. 66-89, **Feb**  
 Almagro, Diego de 94, 102, 110, 118 **Feb**  
 Almond growing: Spain 25, 28 **Apr**  
 Al-Musallamiyah Bay, Saudi Arabia: Oil pollution (1991) 132 **Feb**  
 Alpert, Herb **52 Jun**  
 Aitar of Viracocha, Lake Titicaca, Peru-Bolivia 103 **Mar**  
 al-Tarifi, Nihad **111 Jun**  
 Alwar, Maharaja of 16 **May**  
 al-Wehidi, Hakeeb 98 **Jun**  
 Alyn Orthopedic Hospital, Jerusalem, Israel: Cerebral palsy patient 49, 53, 54-55 **Feb**  
 Amazon's Gold Rush Spills Deadly Quicksilver. Earth Almanac. **Jun**  
 Amelia Island, Fla.: Development 54 **Apr**  
 American Horticultural Therapy Association 64 **May**  
 American Legion: Manila post meeting **67 Mar**  
 American Oceans Campaign 60 **Jun**  
 American Sign Language: Experiments with apes 10, 30, 33 **Mar**  
 The Americas: **La Isabela, Europe's First Foothold in the New World**. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, **Jan**; **Pizarro, Conqueror of the Inca**. By John Hemming. Photos by Stuart Franklin. 90-121, **Feb**; **Search for Columbus**. By Eugene Lyon. Photos by Bob Sacha. 2-39, **Jan**; **Spain in the Americas**; **The Grand Exchange** map supplement. **Feb**  
 Amery, John 66 **May**  
 Ames, Laurel 125, 127, 131 **Mar**  
 Amirjibi, Nunu 91 **May**  
 Amnesia disco, Ibiza, Balearic Islands: Dance floor **4-5 Apr**  
 Anacostia (neighborhood), Washington, D. C.: Bonus Army 65 **Mar**  
 Anawalt, Patricia Rieff: **Clothing Styles Adapt as Two Cultures Meet**. Geographica. **Jan**  
 Ancient Wine: **Piecing Together the Evidence**. Geographica. **Mar**  
 Andean peoples: Agriculture 106-107 **Feb**; Religion 121, celebrations **108-109 Feb**; **Sacred Peaks of the Andes**. By Johan Reinhard. NGS research grant. 84-111, **Mar**  
 Anderson, Carolyn H., author: **Changing the Face of Earth**. *Indian Ocean* map supplement. **Jun**  
 Anderson, Harry **56 Jun**  
 Anderson (destroyer): Atomic test target 75 **Jun**  
 Andes (mountains), South America: **Sacred Peaks of the Andes**. By Johan Reinhard. NGS research grant. 84-111, **Mar**  
 Andesite boxes, Inca 101, 103, **109 Mar**  
 Angolosaurs lizard **58, 59 Jan**  
 Animal rightists: Action at medical research laboratory 33 **Mar**  
 Animal sacrifice: Bolivia 95 **Mar**  
 Ankobra River, Ghana: Gold prospecting **24-25 Jan**  
 Anna Creek Station, South Australia, Australia: **The Simpson Outback**. By Jane Vessels. Photos by Medford Taylor. 64-93, **Apr**  
 Annual Jeoper's Jamboree: Participating **127 Mar**  
 Annular eclipse: **An Epic Eclipse for Southern California**. Earth Almanac. **May**  
 Antabuse: Implants 30 **Feb**  
 Antelope 6-7, 22 **May**; **Alien to Olympic Park, Mountain Goats May Go**. Earth Almanac. **Jun**; **Why Pronghorn Play So Long and So Fast**. Geographica. **May**

Antique Rose Emporium, Brenham, Tex. 77-78 May  
 Anti-Saloon League 11 Feb  
 Antonio del Busto, José 102 Feb  
 Ants: Dune ants 75, 81 Jan; Harvester ants 81 Jan  
**Apelike Jaw—Clue to Human Origins?** Geographica. Mar  
 Apes: *Bonobos, Chimpanzees With a Difference*. By Eugene Linden. Photos by Frans Lanting. 46-53, Mar; *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar; *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar  
 Apnea: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr  
 Apogon (submarine): Atomic test target 74, 75 Jun  
 Apollo missions: *International Space Year: Moon Flights Revisited*. On Television. May  
 Aponick, Mary: Backyard 72-73 Feb  
 Appalachian Mountains, U. S.: *An Open-air Textbook: Lessons in Stone*. Geographica. Jun  
 Aquifers: Australia 74 Apr  
 Arab-Israeli conflict 45, 64 Feb; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun  
 Arabian Peninsula: Map showing extent of 1991 oil smoke pollution 131 Feb  
 Arafat, Yasser 111 Jun  
 Archaeology: *Ancient Wine: Piecing Together the Evidence*. Geographica. Mar; *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan; *Dead Sea Scroll Edits the Story of the Flood*. Geographica. Apr; *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. Jan; *From Civil War Camp to Resort Community*. Geographica. Jun; *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan; *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar; *Uncovering the Lives of the Pyramid Builders*. Geographica. May; *Where Buffalo Roamed—and Died*. Geographica. Feb  
 Archaeology, underwater: *From a Water Hazard, Clues to Golf History*. Geographica. Feb; *From Bronze Age Wreck, "More of Everything"*. Geographica. May; *U.S.S. Macon: Lost and Found*. By J. Gordon Vaeth. 114-127, Jan  
 Arctic regions: *Bear of an Issue Surfaces Over Arctic Drilling*. Earth Almanac. Mar; *Tales of Climate Change Held Deep in the Ice*. Geographica. Jun  
 Arens, Moshe: Israeli security measures 107 Jun  
 Argentina: Disappeared ones (1976-1983) 122-123 May  
 Ariel (settlement), West Bank 62, 64 Feb, 104 Jun  
 Arkansas (battleship): Atomic test target 72, 72, 74 Jun

Arnstein, Karl 120 Jan  
 Arrhythmia, cardiac: Alcohol-induced 15, 20 Feb  
 Arshan, Buryat Republic, Russia: Destruction of monastery 28, 29 Jun  
 Art: *Haida Spirit Rides On in a Bronze Canoe*. Geographica. Apr; Murals 56-57 May, 46-47 Jun; Rock art 69 Jan, 79 Apr  
 Arteriosclerosis: Preventive effect of alcohol 9, 12, 20 Feb  
 Asante, Nana Yaw 24 Jan  
 Asheville, N. C.: Wild turkeys 74-76 Feb  
 Ashrawi, Hanan 94, 111-112 Jun  
 Ashworth, Dawn 118 May  
 Asia: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. May; *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr; *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May; Map of ape ranges 13 Mar; *Sleep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr; *Wild Asian Horse to Return Home*. Geographica. Mar; see also Borneo; Japan; Philippines; Russia; Taiwan; and Middle East  
 Asian elephants 11 May; Carrying tourists 22, 26-27, 28 May; Mother with newborn 29 May; Poaching 16 May  
 Asiatic lions 21, 21 May; Attacks on humans 21 May; Population, India 136 Apr  
 Aspinall, John 21, 41 Mar  
 Astronomy: *An Epic Eclipse for Southern California*. Earth Almanac. May; *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, May  
 Aswan High Dam, Egypt: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb  
 Atahualpa (Inca) 103, 104 Feb; Abduction 104, 109 Feb; Death 95, 111 Feb; Held for ransom 105, 110, room 105, 111 Feb  
 Atami, Japan: Conventioneers 26-27 Feb  
 Atherosclerosis: Preventive effect of alcohol 9, 12, 20 Feb  
 Atlantic flyway: Canada geese 83, 84, 84-85 Feb; *Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun  
 Atlantic Ocean: *A Bloom of Algae as Big as Britain*. Geographica. Apr; *Deep Research Reveals Cod "Highways."* Geographica. Jun; Early navigation 21, 24 Jan; Trade winds 26-27, 33 Jan  
 Atlantis Building, Miami, Fla.: Design 95 Jan  
 Atomic bomb testing: *Bikini's Nuclear Graveyard*. By John L. Eliot. Photos by Bill Curtisinger. 70-83, Jun  
 Atula Station, Northern Territory, Australia 72-73, 84, 85 Apr; Rock carvings 75 Apr  
 Ausangate (peak), Peru: Festival 95, 98 Mar; Sacred glacier ice 95, 98 Mar  
 Auses (spring), Skeleton Coast Park, Namibia 67, 70 Jan

Australia: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb; *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr; *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr  
 Australopithecines: Brain size 26-27 Mar  
 Automobiles: *California Puts a Charge Into Electric Carmakers*. Earth Almanac. Jan; *Smart Cars Map Route to the 21st Century*. Geographica. Feb  
 Autoradiographs 115-120 May  
 "Autumn leaf" moonshine 49 Apr  
 Avery, Oswald 116 May  
 Ayacucho, Peru: Easter celebrations 108-109 Feb  
 Aye-aye, *Sir: There's Food in These Timbers*. Geographica. Mar  
 Aymara: Deification of mountains 91, 92, 101 Mar  
 Azores (islands), Atlantic Ocean: *In the Azores, a Volcano Makes the Cooking Easy*. Geographica. Jun  
 The Aztec: *Clothing Styles Adapt as Two Cultures Meet*. Geographica. Jan; *Spain in the Americas* map supplement. Feb

## B

B-17 bomber 68, 69 Mar  
 BAC see Blood alcohol concentration  
 Babenko, Alex and Raia 56 Feb  
 Babies see Infants  
**Babies Cry Out: Garlic, Yes; Alcohol, No**. Geographica. May  
**Baboon Troop Adapts to Survive in the Desert**. Geographica. Feb  
 Babydoll 50 Jun; Billboard 50, 51 Jun  
 Babylonians: Discovery of alcohol 7 Feb  
 Badia, Pepe 100 Jan  
 Badler, Virginia: *Ancient Wine: Piecing Together the Evidence*. Geographica. Mar  
 Bagrationi, Jano, Manana, and family 108-109 May  
 Bai Hokou research camp, Central African Republic 38 Mar  
 Baikal, Lake, Russia: *Russia's Lake Baikal: The World's Great Lake*. By Don Belt. Photos by Sarah Leen. 2-39, Jun  
 Baikal-Amur Mainline (BAM), Russia: Construction workers 14 Jun; Station 20-21 Jun  
 Baikal seals 7, 20, 23, 24 Jun, On Assignment. Jun  
 Baikalsk Cellulose-Paper Plant, Lake Baikal, Russia 8, 17, 36 Jun; Effluent 11, 20, 33 Jun  
 Baikalskoye, Russia: World War II veterans, female 34-35 Jun  
 Bailey, Robert C.: *Zaire's Efe People: Small From the Start*. Geographica. Jun  
 Bainbridge Island, Wash.: Zen garden 74-75 May  
 Bains, Hardyal Singh 118 Apr  
 Baker (atomic test) 72, 74, 79 Jun; Map 75 Jun; Target ships 72 Jun  
 Balboa, Vasco Núñez de 95, 99 Feb; *Spain in the Americas* map supplement. Feb

- Baldwin, Jeffrey 95 Jan  
Baldwin Beach, Lake Tahoe, Calif.: Underwater pine forest 120-121, 123 Mar  
Balearic Islands, Spain 23, 28 Apr  
Balesteri, Jeanne and Vincent 118 Jan  
Balfour Declaration (1917) 92 Jun  
Ballón, Manuel Chávez 112 Feb, 109 Mar  
**Ballooning Over Mount Everest.** On Television. May  
Bamboo swords 75 Mar  
Bandhavgarh National Park, Madhya Pradesh, India 13 May; Tigers 12, cover, May  
Baqaq refugee camp, Jordan: UN services 98 Jun  
Barasingha 21, 22, 26 May  
Barcelona, Spain: 1992 Summer Olympics 13, 14 Apr  
Barcelona Sports Club, Barcelona, Spain 30-31 Apr  
Barghouthi, Moustapha 113 Jun  
Bark beetles: Sierra tree blight 124, 131 Mar  
Barker, Dan 80 May  
Barley malting 7 Feb  
Barragán, Juan: Account of Pizarro's death 120 Feb  
Bartlett, Des and Jen, author-photographers: *Africa's Skeleton Coast*. 54-85, Jan; On Assignment. Jan  
Baseball, professional: Top salaries 50 Jun  
Basov, Slava and Tolya 3-4 Jun  
Basque provinces, Spain 14, 22 Apr  
Bass, George F.: *From Bronze Age Wreck, "More of Everything."* Geographica. May  
Bataan Peninsula, Philippines 66, 69 Mar; Survivor of battle and imprisonment 65 Mar  
Batteries: *California Puts a Charge Into Electric Carmakers.* Earth Almanac. Jan  
Baumann, Dave 76 Feb  
Baumgardner, Darrel 127, 128 Feb  
Bauno, Kilon 83 Jun  
Bay of Pigs Invasion (1961): 30th anniversary commemoration 96-97 Jan  
Baykal, Lake see Baikal, Lake  
Beach refugee camp, Gaza Strip 100-101 Jun  
Beads, Taino carved shell 44 Jan  
Beaker, Tiahuanacan gold 101, 107, 109 Mar  
Beans, Mayflower 66 May  
Bears see Black bears; Polar bears  
Beauchamp, Gary: *Babies Cry Out: Garlic, Yes; Alcohol, No.* Geographica. May  
Beekeeping: Okefenokee swambers 49 Apr  
Beer: Advertising campaigns 32, 33, 35 Feb; Alcoholism, British 11 Feb; Origins 7 Feb; Spring break party 34-35 Feb; Top consumers 11 Feb; U. S. production (1990) 33 Feb  
Beersheba, Israel: Family reunion 48-49 Feb  
Beetles: Bark beetles 124, 131 Mar; *Burying Beetles Carry More Than Their Weight.* Geographica. May; Tenebrionid beetles 79 Jan  
Begleiter, Henri 25 Feb  
Begum, Bahar Khanum, and family 123 May  
Belchite, Spain: Ruins 24-25 Apr  
Belt, Annie Griffiths, photographer: *Vancouver—Good Luck City.* By Andrew Ward. 94-121, Apr  
Belt, Don, author: *Russia's Lake Baikal: The World's Great Lake.* Photos by Sarah Leen. 2-39, Jun; On Assignment. Jun  
Belugas: Vancouver Public Aquarium 97-98, cover, Apr  
Benguela Current 67, 75 Jan  
Berger, Joel: Rhino research 75 Jan  
Bermeo, Spain: Seafood harvest 29 Apr  
Bernáldez, Andrés 32 Jan  
Berosini, Bobby: Las Vegas act 38-39 Mar  
Berra, Tim: *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr  
Beverly Hills, Los Angeles, Calif. 63, 65 Jun; Home prices 65 Jun  
Beverly Hills Hotel, Los Angeles, Calif.: History 65 Jun; Swimsuit models 53 Jun  
Biblical Archaeology Society: *Dead Sea Scroll Edits the Story of the Flood.* Geographica. Apr  
Bigullayeva, Ira 98 May  
Bikini Atoll, Marshall Islands: *Bikini's Nuclear Graveyard.* By John L. Eliot. Photos by Bill Curtsinger. 70-83, Jun  
Bilbao, Spain 22 Apr  
Billys Island, Ga. 45, 49 Apr  
Biltmore Estate, Asheville, N. C.: Wild turkeys 76, 76 Feb  
Biographies see Columbus, Christopher; MacArthur, Douglas; Pizarro, Francisco  
*Biopesticides Take Aim With Natural Allies.* Earth Almanac. Feb  
Biotechnology: *DNA Profiling: The New Science of Identity.* By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, May  
Bipedalism: Bonobos 17, 24 Mar; Humans 18, 24 Mar  
Birch, pubescent: *Even in Spring, Leaves Fall—Some Forever.* Earth Almanac. Apr  
Birds see Canada geese; Eagles; Starlings; Trumpeter swans; Turkeys  
Birdsville, Queensland, Australia 89-90 Apr; Boxing match 68-69 Apr; Hotel 90-91 Apr  
Birdsville Track, Simpson Desert, Australia 70, 74, 88, 91, 92 Apr  
Birger, Richard: *Power to the Prairie on an Iowa Refuge.* Earth Almanac. Mar  
Birman, Victor 64 Feb  
Biron, Dan 45-46 Feb  
Birth defects see Fetal alcohol syndrome  
Bison, American: *Where Buffalo Roamed—and Died.* Geographica. Feb  
Black Americans: *From Civil War Camp to Resort Community.* Geographica. Jun; Miami community 100, 105, 109-110 Jan; *Park Service to Mark the Road to Freedom.* Geographica. Apr  
Black Bart the Mountain Man 128 Mar  
Black bears: *Black Bear of a Different Color Needs Protection.* Earth Almanac. Jan; *Eastern Wildlife—*  
*Bittersweet Success.* By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb  
Black Panthers (Palestinian resistance fighters) 104 Jun; Demonstration 104-105 Jun  
Black rhinoceroses: Horn removal research 75 Jan; Namib Desert poaching 71, 75 Jan  
Black Sea: Beach 104-105 May  
"black smokers" (hydrothermal vents). *Pacific Ocean* map supplement. Jun  
Black-backed jackal 62-63 Jan  
Blackbuck 6-7, 8 May  
Black-footed ferrets: Endangerment 136 Apr  
*Blackwater Country.* By Richard Coniff. Photos by Melissa Farlow. 34-63, Apr  
Blake, Stephen 21 Mar  
Blazing stars (wildflower): *Power to the Prairie on an Iowa Refuge.* Earth Almanac. Mar  
*A Blending of Cultures Creates a Vibrant People.* On Television. Feb  
Blimps: World War II antisubmarine patrols 117, 127 Jan  
The blind: *Maps for the Blind Have a Different Feel.* Geographica. Jun  
Bloedel Reserve, Bainbridge Island, Wash.: Zen garden 74-75 May  
Blood alcohol concentration (BAC): Overdose range 15, 19 Feb; Threshold for driving, U. S. average 20 Feb  
Blood sacrifice see Animal sacrifice; Human sacrifice  
*A Bloom of Algae as Big as Britain.* Geographica. Apr  
Blum, Jan 54 May  
Boabdil, Sultan see Muhammad XI  
Bobova, Vera, and family 22 Jun  
Boesch, Christophe: Tai forest chimpanzee research 14, 22, 23, 24, 26, 27 Mar, On Television. Mar  
Boesch-Achermann, Hedwige: Tai forest chimpanzee research 14, 23 Mar, On Television. Mar  
Bog bodies: Paleo-Indian DNA research 120, 121 May  
Bogs see The Fens; Okefenokee Swamp  
Bolivia: *Sacred Peaks of the Andes.* By Johan Reinhard. NGS research grant. 84-111, Mar  
Bolshevik Revolution (1917) 84, 96 May; Confiscated heirlooms 108-109 May  
*Bolt From the Blue More Likely to Hit Men.* Geographica. Apr  
Bomb shelters: New Britain 69 Mar  
Bone-marrow transplants: Donor registries 120 May; Patient DNA monitoring 112, 120 May; Procedure 120 May  
*Bone of the Sea, Coral Mends the Human Frame.* Earth Almanac. Mar  
Bonfils-Stanton Foundation. President's Page. Mar  
Bonham, J. Blaine, Jr. 69 May  
Bonobos: *Bonobos, Chimpanzees With a Difference.* By Eugene Linden. Photos by Frans Lanting. 46-53, Mar; *A Curious Kinship: Apes and Humans.* By Eugene Linden. Photos by Michael Nichols. 2-45, Mar  
Bonus Army (1932) 65 Mar

Boots and Coots: Kuwaiti oil well capping 134 Feb  
 Borneo (island), Brunei-Indonesia-Malaysia: *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar; Orangutans 13, 40, 41 Mar; *Small Animals Help Plant a Big Flower*. Geographica. Apr  
 Bosch Travelpilot: *Smart Cars Map Route to the 21st Century*. Geographica. Feb  
 Bostoganshvil, Dimitri 84-85 May  
*botánicas* 45, 48, 60 Jun  
 bowerbird intelligentman (stage name) 54 Jun  
 Bowlegs, Billy 49 Apr  
 Boxes, Inca andesite 103, 109 Mar  
 Boxing match: Birdsville, Queensland, Australia 68-69 Apr  
 Braden, Eugene 61 May  
 Bradley, David 74, 80 Jun  
 Brain, Conrad: *Baboon Troop Adapts to Survive in the Desert*. Geographica. Feb  
 Brain, human: Alcohol-induced damage 19 Feb; Alcoholic atrophy 13, 19 Feb; Alcoholic brain-wave markers 25 Feb; Paleo-Indian 120, 121 May; Primate evolution 24, 26-27 Mar  
 Braine, Steve 81 Jan  
 Braman, Norman 109 Jan  
 Brandy: Myth 11 Feb; Origins 6, 7 Feb  
 Branstetter, Charlotte 60 May  
 "Braving Alaska" (NGS television special): *Four Alaska Families Brave Winter and Wilderness*. On Television. Apr; Cover announcement. Apr  
 Bravo (nuclear test) 80 Jun; Map 74 Jun  
 Brazil: *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. Jun; Spain in the Americas map supplement. Feb  
 Brazzaville Gorilla Orphanage, Congo 19-21, 41 Mar  
 Breast-feeding: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. May  
 Breedlove, Addie 78, 80 May  
 Bridal boutique: Seville, Spain 21 Apr  
 Brighouse, Jeb 45 Jun  
 Brimberg, Sisse, photographer: *Persean Gulf Pollution: Assessing the Damage One Year Later*. By Sylvia A. Earle. NGS research grant. 122-134, Feb  
 British Columbia (province), Canada: *British Columbia, The Making of Canada* map series supplement. Apr; *Science Supports Ancient Legends*. Geographica. Mar; *Vancouver—Good Luck City*. By Andrew Ward. Photos by Annie Griffiths Belt. 94-121, Apr; see also Princess Royal Island  
 British Leap to Save Amorous Amphibians. Earth Almanac. Mar  
 Brodeur, Mark 119-120 Jun  
 Brodeur, Nina 118, 119-120 Jun  
 Bronx Green-Up 69-70 May  
 Bronze Age: *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan; *From Bronze Age Wreck, "More of Everything."* Geographica. May  
 Bronzes: *Haida Spirit Rides On in a Bronze Canoe*. Geographica. Apr

Brooks, Louise 63 Mar  
 Brown, Judith, author: *Cuttyhunk Seasons*. Photos by Dick Swanson. 114-132, Jun  
 Brown, Moira 124 May  
 Brown, Richard 75 May  
 Brumbies: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb  
 Bruns, Bill 58 Jun  
 Bryson, Bill, author: *The New World of Spain*. Photos by David Alan Harvey. 3-33, Apr  
 B'Tselem (Israeli human-rights group): Palestinian death toll from intifada 111 Jun  
 Bubble Helmets Sound Ocean Depths. On Television. Jun  
 Buddhist monastery: Novitiates 28-29 Jun  
 Buenos Aires, Argentina: Remains of disappeared ones 122-123 May  
 Buffalo: India 18, 20, 27, 28 May; *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb; *Where Buffalo Roamed—and Died*. Geographica. Feb  
 Bugadze, Gia 98 May  
 Bulkeley, John 64 Mar  
 Bull-and-condor ritual, Andean 104, 105 Mar  
 Bullfighting: Spain 20-21, 24-25 Apr  
 Buna, New Guinea: Battlefield publicity dispute 74 Mar  
 Burrard Indian Band 118 Apr  
 Burrows, Jim 58-59 Jun  
 Buryat Republic, Russia 9, 11, 28, 29 Jun  
 Burying Beetles Carry More Than Their Weight. Geographica. May  
 Busch, Kenneth: *From Civil War Camp to Resort Community*. Geographica. Jun  
 Butterfield, Bruce 55 May  
 Buzzards Bay, Mass.: Sewage dumping 125 Jun  
 Bygott, David 125, 126 Apr

## C

C. S. Fund: Garden sponsorship 78 May  
 CDC see Centers for Disease Control  
 Cabernet: Aging process 19 Feb  
 Cabo de Cruz, Spain: Fishing fleet 29 Apr  
 Cabral, Victorina 67 Mar  
 Cajamarca, Peru: Abduction of Atahualpa 104, 105, 109, 111 Feb; Defeat of Inca army 95, 109 Feb  
 Calderón, Fernando Luna 48 Jan  
 California: *California Puts a Charge Into Electric Carmakers*. Earth Almanac. Jan; *An Epic Eclipse for Southern California*. Earth Almanac. May; *Lake Tahoe—Playing for High Stakes*. By Ernest B. Furgurson. Photos by George F. Mobley. 113-132, Mar; *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb; see also Los Angeles; San Francisco  
 California Conservation Corps: Antierosion measures 125 Mar  
 California cuisine: Menu items 60 Jun  
 California Tahoe Conservancy 128 Mar

Cal-Neva Lodge, Lake Tahoe, Calif.-Nev. 116, 126-127 Mar  
 Caltech radio telescope, Mauna Kea Observatory, Hawaii 44 May  
 Camden County, Ga.: Growth 53 Apr  
 Camels: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb  
 Camouflage: *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. May  
 Camp Baird, Hilton Head Island, S. C.: *From Civil War Camp to Resort Community*. Geographica. Jun  
 Camp Richardson, Lake Tahoe, Calif. 122 Mar  
 Can Seal Pup Biology Help Save Infant Lives? Geographica. Apr  
 Canada: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; see also British Columbia; Newfoundland; Nova Scotia; Ontario  
 Canada-France-Hawaii (CFH) telescope, Mauna Kea Observatory, Hawaii 37 May; Control room 44 May  
 Canada geese: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, cover. Feb  
 Canada Place, Vancouver, British Columbia 100, 103 Apr  
 Canadian Embassy, Washington, D. C.: *Haida Spirit Rides On in a Bronze Canoe*. Geographica. Apr  
 Canadian Pacific Railway Company: Planned development, Vancouver 105 Apr  
 Canary Islands, Atlantic Ocean: Chimpanzee exploitation 25 Mar; Sabina trees 32-33 Jan  
 Cancer: Alcohol as risk factor 13, 19 Feb; see also Leukemia  
 Candia, Pedro de 104, 109 Feb  
 Canepa, David 117 Jan  
 Cannonball, iron 51 Jan  
 Capilano Indians 102 Apr  
 Captive breeding projects: *Red Wolves Return to Smoky Mountains*. Earth Almanac. May  
 Captives in the Wild. By Craig Packer. NGS research grant. 122-136, Apr  
 Carandell, José María 14, 18 Apr  
 Caravels: Reproductions of *Niña, Pinta, and Santa María 2-5, 18-19, 39, cover. Jan*  
 Carbon dioxide: *A Bloom of Algae as Big as Britain*. Geographica. Apr  
 Cargo ships: Alcohol transport tank 16-17 Feb; Grain tank 120-121 Apr  
 Caribbean monk seals: Probable extinction 130 Jan; Sightings by Columbus 130, 140 Jan  
 Caribbean region: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan; *Search for Columbus*. By Eugene Lyon. Photos by Bob Sacha. 2-39, Jan  
 Cariboo district, British Columbia, Canada. *British Columbia* map supplement. Apr  
 Carmel Market, Tel Aviv, Israel: Food donations 65 Feb  
 Caron, Mark 80 Feb  
 Carter, Jackie 55-57 Apr



- Casares, Spain 10-11 Apr  
 Casse, Thorkil: *Photographic Debut for a Pacific Starling*. Geographica. Jun  
 Castellini, Michael: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr  
 Castilleja de la Cuesta, Spain: Holy Week celebration 16-17 Apr  
 Catalonia (region), Spain: *The New World of Spain*. By Bill Bryson. Photos by David Alan Harvey. 3-33, Apr  
 Cats, domestic: *Independent Cat Opens the Vatican's Portals*. Geographica. Jan; On Television. Mar  
 Cats, wild: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr; see also Cheetahs; Florida panthers; Leopards; Lions; Tigers  
 Cattle: Cattle-to-human waste ratio 63 Apr; *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr  
 Cattle egret 24 May  
 Caucasus Mountains, Azerbaijan-Georgia-Russia: *Georgia Fights for Nationhood*. By Angus Roxburgh. Photos by Tomasz Tomaszewski. 82-111, May; Grape harvest 4-5 Feb  
 Cavanaugh, Gordon 85 Apr  
 Cellmark Diagnostics 119 May  
 Celts: *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan  
 Center for Marine Conservation: *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar  
 Center for Seven Generations, Occidental, Calif.: Salad garden 79 May  
 Centers for Disease Control: *Bolt From the Blue More Likely to Hit Men*. Geographica. Apr  
 Central African Republic: Gorilla researchers 15, 38 Mar  
 Central nervous system: Effects of alcohol consumption 13, 15 Feb  
 Cephalopods: *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. May  
 Ceramics: *Ancient Wine: Piecing Together the Evidence*. Geographica. Mar; European production in New World 47 Jan; Taino ornamental faces 44 Jan  
 Cerebral palsy patient 49, 53, 54-55 Feb  
 Cerrato, Josu 22 Apr  
 Cesium 137: Topsoil residue, Bikini Island 80 Jun  
 Chacma baboons: *Baboon Troop Adapts to Survive in the Desert*. Geographica. Feb  
 Chain mail, Spanish 51 Jan  
 Champagne (wine): Invention 28 Feb  
 Chan, Alfie 111, 113 Apr  
 Chanca, Alvarez 44, 48 Jan  
 Chand, Kishan 22, 23 May  
 Changing the Face of Earth. By Carolyn H. Anderson. Indian Ocean map supplement. Jun  
 Channel Country (region), Queensland, Australia 73, 74, 88, 90, 92 Apr  
 Charles V (Holy Roman Emperor): Grant given to Pizarro 103 Feb; Reaction to death of Atahualpa 111 Feb; Spain in the Americas map supplement. Feb  
 Charlton County, Ga.: Mobile home communities 55-56 Apr; Sludge dumping 56-57 Apr  
 Château Belair, Saint-Émilion, France: Cellar 18-19 Feb  
 Chávez, José Antonio 95 Mar  
 Chavín culture 90 Mar  
 Cheers (television series) 58-60 Jun  
 Cheeta (chimpanzee) 36 Mar  
 Cheetahs: Genetic pool 127, 136 Apr  
 Chelsea, Phyllis and Andy 35 Feb  
 Chemosynthesis: *Deep-Sea Vents: Worlds Without Sun*. By Michael Kenna. Pacific Ocean map supplement. Jun  
 Chepovetsky, Arkadii 46, 48 Feb  
 Chesapeake Bay, Md.-Va.: Canada goose hunting 69, 84, decoys 84 Feb; Crop damage by Canada geese 69 Feb  
 Chichicastenango, Guatemala: Good Friday celebrants 22-23 Feb  
 Chimpanzees: *Bonobos, Chimpanzees With a Difference*. By Eugene Linden. Photos by Frans Lanting. 46-53, Mar; *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar; On Television. Mar  
 China, People's Republic of: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. May; Counterattack on UN forces in Korea 81 Mar  
 China, Republic of see Taiwan  
 Chinatown, Vancouver, British Columbia 110-111 Apr; Dancer 99 Apr  
 Chinchón, Spain: Parish priest 18 Apr  
 Chinese Desert Fossils Locate an Ancient Sea. Geographica. May  
 Chinnappa, K. M. 13 May  
 Chino Nojo (truck farm), Rancho Santa Fe, Calif.: Tomato varieties 78 May  
 Chios (island), Aegean Sea: Trade 13, 16, 20 Jan  
 Chkhaidze, Soso 96 May  
 Cholesterol, HDL: Increase derived from alcohol consumption 9 Feb  
 Cholokashvili, Konstantin 110 May  
 Chosin Reservoir, Battle of (1950): Allied casualties 78 Mar; Veteran 79 Mar  
 Chris Brownlie Hospice, Elysian Park, Los Angeles, Calif.: AIDS patient's last rites 63 Jun  
 Churchill, Winston: Alcohol consumption 25 Feb  
 Church's Beach, Cuttyhunk Island, Mass. 117 Jun  
 Cieza de León, Pedro de 100, 114-115, 119 Feb  
 Circumcision: Soviet Jews 58, recovery room 58-59 Feb  
 Cirrhosis, liver: Diagram of development by alcohol consumption 13 Feb; French mortality 11 Feb; Hungarian mortality 21 Feb; Italian mortality 27 Feb; Native American mortality 34 Feb  
 CITES see Convention on International Trade in Endangered Species  
 Civil War, U. S.: *From Civil War Camp to Resort Community*. Geographica. Jun  
 Clairville, Marie Chapelle 105 Jan  
 Clams: Giant clam 82 Jun; Harvest. Spain 26-27 Apr; Pacific Ocean map supplement. Jun  
 Clapham, Charles and Doris 103 Apr  
 Clark, Eugene: *To a Sandperch, It's All in a Night's Work*. Geographica. Jan  
 Clark, Molly 67, 82, 84 Apr  
 Clark, Stephen P. 112 Jan  
 Clean Air Transport: *California Puts a Charge Into Electric Carmakers*. Earth Almanac. Jan  
 Clean Nova Scotia Foundation: *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar  
 Cleary, Gaynor 73, 84-85 Apr  
 Cleary, Tom 84-85 Apr  
 Clemens, Samuel see Twain, Mark  
 Clethra alnifolia: Use as hand soap 45 Apr  
 Climate: Role in human evolution 24, 26-27 Mar; *Tales of Climate Change Held Deep in the Ice*. Geographica. Jun  
 Clothing Styles Adapt as Two Cultures Meet. Geographica. Jan  
 Club-snouted gaviels 4, 4-5, 19 May  
 Coal Harbour rail yard, Vancouver, British Columbia 105 Apr  
 Coalition for Buzzards Bay 123, 125 Jun  
 Cobb, Charles E., Jr., author: *Miami*. Photos by Maggie Steber. 86-113, Jan  
 Cocaine: Miami seizures 95 Jan; Suspected dealers 103 Jan  
 Cocker spaniel: Airport drug detection 103 Jan  
 Cockroaches: *Biopesticides Take Aim With Natural Allies*. Earth Almanac. Feb  
 Coconut Grove (neighborhood), Miami, Fla.: History 100, 109-110 Jan  
 Cod: *Deep Research Reveals Cod "Highways"*. Geographica. Jun  
 Codina, Armando 92, 100 Jan  
 Cohn, Ron 33 Mar  
 Colhoun, Shannon 130 Mar  
 Collins, Lawrence 50 Jun  
 Colobus monkeys: Prey of chimpanzees 23, 26 Mar  
 Colombo, Domenico 9, 12, 14-15 Jan  
 Colón, Cristóbal see Columbus, Christopher  
 Colón, Cristóbal, XX 16, 34 Jan  
 Colorado: High-altitude gardens 52-53, 66, 67 May  
 Colorado Geography Education Fund: *A Million Ways to Boost Geography Education*. By Gilbert M. Grosvenor. President's Page. Mar  
 Colquepunku (peak), Peru: Worshiper 84 Mar  
 Colson, David 60 Apr  
 Colson, Suzanne 58, 58, 60-61 Apr  
 Columbia Lighthouse for the Blind: *Maps for the Blind Have a Different Feel*. Geographica. Jun  
 Columbia Pictures: Purchase by Japanese 58 Jun  
 Columbus, Bartholomew 12, 13, 26, 36, 44, 51 Jan  
 Columbus, Christopher: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan; *Search for Columbus*. By Eugene Lyon. Photos by Bob Sacha. 2-39, Jan; Spain in the Americas map supplement. Feb

Columbus, Diego 25, 27, 38 Jan  
 Columbus, Ferdinand 12, 13, 32 Jan  
 Combe, Arthur 73 May  
 Comedy Store, Los Angeles, Calif. 62 Jun  
 Common ebony: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr  
 Commonwealth of Independent States see Russia  
 Communication, animal: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar  
 Communications: Disruptions from solar flares 41 May  
 Computer applications: *Kids Network Sends Data to Russia, With Love*. By Gilbert M. Grosvenor. President's Page. Jun; *Smart Cars Map Route to the 21st Century*. Geographica. Feb  
 Comstock Lode silver mines, Nev.: Timber demands 123-124 Mar  
 Conaway, James, author: *Eastern Wildlife—Bittersweet Success*. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb  
 Conclave of Cats Besieged in a Thai Refuge. Earth Almanac. Apr  
 Conde, Mario 15 Apr  
 Condor-and-bull ritual, Andean 104, 105 Mar  
 Congo, People's Republic of the: Ape sanctuaries 19-21, 25, 41, 42 Mar; Gorilla hands for sale 21 Mar; Gorilla meat consumption 21 Mar  
 Connecticut: Canada geese population 83 Feb  
 Conniff, Richard, author: *Blackwater Country*. Photos by Melissa Farlow. 34-63, Apr  
 Conoco Inc.: Chimpanzee refuge sponsorship 25, 42 Mar  
 Conquistadores: Observations on Inca paganism 92, 93, 101, 109 Mar; *Pizarro, Conqueror of the Inca*. By John Hemming. Photos by Stuart Franklin. 90-121, Feb; *Spain in the Americas*; *The Grand Exchange* map supplement. Feb; Symbolic representation, Andean ritual 105 Mar  
 Conroy, Glenn: *Apelike Jaw—Clue to Human Origins?* Geographica. Mar  
 Conservation International: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. Feb  
 Constitution, U. S.: 18th Amendment 11 Feb  
 Continental drift see Plate tectonics  
 Convention on International Trade in Endangered Species (CITES): Ape-trade limitations 27 Mar  
 Cooper, Ginger 116 Jun  
 Cooper, Isabel Rosario 63, 65, 66 Mar  
 Copiapó, Mount, Chile: Excavation 91, 108 Mar; Inca ceremonial platform 91 Mar; Inca religious offerings 88, 89, 90 Mar  
 Coral and coral reefs: *Bone of the Sea, Coral Mends the Human Frame*. Earth Almanac. Mar  
 Coraopolis, Pa.: *Crusader for Earth Also Fights a Personal Battle*. Earth Almanac. May  
 Córdoba, Spain: Church 28-29 Jan  
 Corlett, Keith 71-72 May  
 Cormorants 65 Jan

Corona, solar 36, 37, 41, 41 May; Coronol streamer 41 May  
 Corregidor Island, Philippines: MacArthur's escape 64 Mar  
 Corroboroe Rock, Northern Territory, Australia: Rock carvings 75 Apr  
 Cortés, Hernán: Relationship with Pizarro 103, 118 Feb; *Spain in the Americas* map supplement. Feb  
 Cory, William. President's Page. Jun  
 Costa del Sol, Spain: Development 8 Apr  
 Cotabambas, Peru: Bull-and-condor ritual 104, 105 Mar  
 Côte d'Ivoire: Chimpanzees 13, 14, 22-24, 26, 27 Mar, On Television. Mar  
 Cottino, Amedeo 28 Feb  
 Cover illustrations, NGM:  
 January: Reproductions of *Niña, Pinta, and Santa María*  
 February: Canada geese, Long Island, N. Y.  
 March: Chimpanzee  
 April: Beluga, Vancouver Public Aquarium  
 May: Tiger, Bandhavgarh National Park  
 June: Children on Lake Baikal  
 Covers, NGM: *Using Recycled Paper, NGS Cover Goes Green*. Earth Almanac. Jun  
 Cowart, Robert 50 Apr  
 Cowboys: *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr  
 cozido: *In the Azores, a Volcano Makes the Cooking Easy*. Geographica. Jun  
 Crab, ghost 66 Jan, On Assignment. Jan  
 Crack cocaine 95 Jan  
 Craig, Beth 108 Apr  
 Craig, Doug 106, 108 Apr  
 Craig, Lloyd 106, 108 Apr  
 Cramer, Doug 66 Jun  
 "Crater of the Rain God" (EXPLORER film): *Crater and Delta: Life and Death for African Wildlife*. On Television. Apr  
 Crawford, Roxie 49 Apr  
 Creighton Mine, Sudbury, Ontario, Canada: *Spouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan  
 Crews, William McKinley 40 Apr  
 Cribbs, Bill 45, 48, 49, 62, 63 Apr  
 Cribbs, Bruce 54 Apr  
 Cribbs, Mary Olive 45, 53 Apr  
 Crick, Francis 116 May  
 Crime solving: *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, May  
 Crocodiles 4-5, 19 May  
 Cross, Randy 80 Feb  
 Cross, Christian: Andean pagan symbolism 98, 103 Mar; Spanish crucifix 52 Jan  
 Crown-of-thorns starfish. On Television. Jun  
 Cruise, Tom 58 Jun  
 Crusader for Earth Also Fights a Personal Battle. Earth Almanac. May  
 Crustaceans: Lake Baikal endemic species 20 Jun; see also Ghost crabs; Ghost shrimp  
 Cruixent, José F. M.: La Isabela excavation 44, 46, 46-47 Jan

Cuban Americans: *Miami*. By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, Jan  
 Cumberland Island, Ga. 54 Apr  
 curanderos 93 Mar  
 A Curiosity of "Cats" Highlights Video Club Season. On Television. Mar  
 A Curious Kinship: *Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar  
 Curtsinger, Bill, photographer: *Last Refuge of the Monk Seal*. By Diane Ackerman. 128-144, Jan; *Bikini's Nuclear Graveyard*. By John L. Eliot. 70-83, Jun  
 Cutthroat trout 125 Mar  
 Cuttlefish: *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. May  
 Cuttyhunk Island, Mass.: *Cuttyhunk Seasons*. By Judith Brown. Photos by Dick Swanson. 114-132, Jun  
 Cuzco, Peru 94, 112, 114-115, 116 Feb; Hailstorm (1983) 91 Mar; Healers 93 Mar; Inca sacrificial feasts 101 Mar; Sales of sacrificial bundles 93, 95 Mar; Sun festival reenactment 92-93, 120 Feb  
 Cypress trees 34, 45 Apr

## D

DNA (deoxyribonucleic acid): *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, May; Lion DNA-fingerprinting studies 130 Apr  
 Dade County, Fla. see Miami  
 Dailey, Ernest 118 Jan  
 D'Ailly, Pierre 34, 35 Jan  
 Dalton, John 95 Jan  
 Dams: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb  
 Danny's Hollywood Diner, Los Angeles, Calif. 50 Jun  
 Danson, Ted 59-60 Jun  
 The Darkness That Enlightens. By Jay M. Pasachoff. NGS research grant. 36-37, May  
 Davidov, Yosef 48 Feb  
 Davis, Bill 57 Apr  
 Davis, Leonard J. 55 Feb  
 Dayak tribespeople: *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar  
 Daytona Beach, Fla.: Beer party 34-35 Feb  
 Dead Sea Scroll Edits the Story of the Flood. Geographica. Apr  
 Deagan, Kathleen A., author: *La Isabela, Europe's First Foothold in the New World*. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan  
 De Antiquitibus (Josephus) 33-34 Jan  
 Decavitator (hydrofoil): *It's a Plane! It's a Boat! It's a Record Holder!* Geographica. May  
 Decoys: Canada geese 84 Feb  
 Deep Research Reveals Cod "Highways." Geographica. Jun  
 Deep-Sea Vents: *Worlds Without Sun*. By Michael Kenna. Pacific Ocean map supplement. Jun

- Deer, white-tailed: **Eastern Wildlife—Bittersweet Success.** By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb
- Deforestation: **India's Wildlife Dilemma.** By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May
- Deighton, "Gassy Jack" 102 Apr; *British Columbia* map supplement. Apr
- Delbeck, Pascal 19 Feb
- Delgado, Jim 77 Jun
- Denver, Colo.: Geography education program. President's Page. Mar
- Deoxyribonucleic acid see DNA
- De Pasquale, Laura 86-87 Jan
- Depression: Alcohol-induced 19 Feb
- Deserts: **Africa's Skeleton Coast.** By Des and Jen Bartlett. 54-85, Jan; **Baboon Troop Adapts to Survive in the Desert.** Geographica. Feb; **Chinese Desert Fossils Locate an Ancient Sea.** Geographica. May; Israel 50-51 Feb; **The Simpson Outback.** By Jane Vessels. Photos by Medford Taylor. 64-93, Apr; **Spinning Spiders: Pioneers of the Wheel.** Earth Almanac. May
- DesMeules, Pierre 132, 133 Apr
- Desolation Wilderness, Calif. 116, 126 Mar
- de Soto, Hernando: Conquest of Peru 104, 109-110 Feb; *Spain in the Americas* map supplement. Feb
- Detoxification programs: Russia 8, 9, 29-30 Feb; Seattle 21, 30, 31 Feb
- Detritivores 78 Jan
- de Waal, Frans 22, 24, 35 Mar
- Dewhurst, Chris. On Television. May
- Deyton, Chuck 76 Feb
- Dheishah refugee camp, West Bank 96-97, 98, 100 Jun
- Dias, Bartolomeu 30, 35 Jan
- Dickinson, Leo. On Television. May
- Did Trumpets or a Quake Tumble Jericho's Walls?** Geographica. Jan
- Dirigibles: U.S.S. **Macon: Lost and Found.** By J. Gordon Vaeth. 114-127, Jan
- Disappeared ones (Argentina): DNA testing of possible offspring 122-123 May; Estimated total 122 May
- Dr. Sun Yat-Sen Classical Chinese Garden, Vancouver, British Columbia 110-111 Apr
- Dodger Stadium, Los Angeles, Calif. 49, 50 Jun
- Dogs: Australian cattle dogs 78-79 Apr; Drug detection 103 Jan
- Dolley, Jennah 29 Mar
- Dolphins, Pacific white-sided: **Walls of Death, Drift Nets Will Kill No More.** Earth Almanac. Apr
- Dom Pérignon (champagne) 28 Feb
- Dominguez, Leocadio 24 Apr
- Dominican Republic: **La Isabela, Europe's First Foothold in the New World.** By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan
- Dondupov, Dashi-Nima 29 Jun
- Donkeys: **No Quarter: Australia Targets Alien Animals.** Earth Almanac. Feb
- Dor, Fritz 105 Jan
- Doran, Diane 10 Mar
- Doretto, Mimi 123 May
- Dorr, Barbara and Mel 128, 131 Jun
- Dosanjh, Ujjal 116-117 Apr
- Douglas, Marjory Stoneman 92, 95, 99 Jan
- Douglas, Michael 58 Jun
- Douglas MacArthur: An American Soldier.** By Geoffrey C. Ward. Photos by Cary Wolinsky. 54-83, Mar
- Drela, Mark: **It's a Plane! It's a Boat! It's a Record Holder!** Geographica. May
- Dresel, Alger H. 117, 118 Jan
- Drift nets: **Walls of Death, Drift Nets Will Kill No More.** Earth Almanac. Apr
- Drifters (lightweight aircraft) 74, 76-77, 79-80 Jan
- Drought: **Recipe for Instant Fish: First, Add Some Water....** Geographica. Apr
- Drugs: **Alcohol, the Legal Drug.** By Boyd Gibbons. Photos by George Steinmetz. 2-35, Feb; **Fetal Alcohol Syndrome: The Preventable Tragedy.** By George Steinmetz. 36-39, Feb
- Drugs, illegal: **Miami.** By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, Jan; Needle exchange programs 117 Apr
- Drunk driving: Finnish road-check 14-15, 20 Feb; Italy 27-28 Feb; United States, annual deaths 15, 21 Feb
- Dudwa National Park, Uttar Pradesh, India 23, 26 May
- Dune ants 75, 81 Jan
- Dunjiba Community Council 80, 82 Apr
- du Pont, Pierre S. 66 May
- Dutton, Ed 54 May
- Duvilaire, Jean 105 Jan
- Easter celebrations: Italy 27 Jan; Peru 108-109 Feb; Spain 16-17, 17, 19, 32 Apr
- Easterling, Nancy 64 May
- Eastern Arrernte people 75, 84 Apr
- Eastern Shore, Md.-Va.: Canada geese crop damage 69 Feb; Canada goose hunting 84, decoys 84 Feb
- Eastern Wildlife—Bittersweet Success.** By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb
- Eastwood, Eddie 118 May
- Eastwood, Kath 118 May
- Ebony, common: **Even in Spring, Leaves Fall—Some Forever.** Earth Almanac. Apr
- Echo Park, Los Angeles, Calif. 45, 49 Jun; Curse removal 60 Jun
- Eclipses: **An Epic Eclipse for Southern California.** Earth Almanac. May; **The Great Eclipse.** By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, May
- EcoScience: **Biopesticides Take Aim With Natural Allies.** Earth Almanac. Feb
- Eco-tourism: Conservation efficacy 42 Mar; Namibia 84-85 Jan
- Ecotypes: Desert-adapted elephants 66, 69, 71 Jan
- Ed Sullivan Show:** Chimpanzee unicyclist 36, 37 Mar
- Eddleman, Edith 73 May
- Edquiba, Florentino 118 Jan
- Edwards, Louise 83, 85 Apr
- Efe people: **Zaire's Efe People: Small From the Start.** Geographica. Jun
- Efrata, West Bank: Guard duty 64, 65 Feb
- Egin (newspaper) 22 Apr
- Egret, cattle 24 May
- Egypt: **Will the Nile Delta Sink Into the Sea?** Geographica. Feb; see also Ras Mohammed National Park
- Egyptians, ancient: Discovery of alcohol 7 Feb; DNA research 120, 121 May; **Uncovering the Lives of the Pyramid Builders.** Geographica. May
- Eichelberger, Robert 74 Mar
- 18th Amendment (1919): Origin 11 Feb
- Eiré López, Alfonso 28, 30 Apr
- Eisenhower, Dwight D.: Interactions with Douglas MacArthur 65, 67, 70 Mar
- Eisenman, Robert: **Dead Sea Scroll Edits the Story of the Flood.** Geographica. Apr
- Elbright, "Shrimp" 126 Mar
- El Castillo, Dominican Republic: Villagers 44 Jan
- Electra (airplane) see Lockheed Electra
- Electric fishes: **Nosy Detective to Monitor River Thames Pollution.** Earth Almanac. Jan
- Electric vehicles (EVs): **California Puts a Charge Into Electric Carmakers.** Earth Almanac. Jan
- Elephant seals, northern: **Can Seal Pup Biology Help Save Infant Lives?** Geographica. Apr
- Elephantnose mormyrids: **Nosy Detective to Monitor River Thames Pollution.** Earth Almanac. Jan

## E

- E. & J. Gallo Winery, Modesto, Calif.: Tanks 32-33 Feb
- EPA see U. S. Environmental Protection Agency
- ESP nightclub, Miami Beach, Fla.: Oscar-night costume party 111 Jan
- ETA (Basque terrorist organization): Victim death toll 22 Apr
- EVs see Electric vehicles
- Eagles: **Rare Eagle Sighted—Still Aloft, but for How Long?** Earth Almanac. Feb
- Earle, Sylvia A., author: **Persian Gulf Pollution: Assessing the Damage One Year Later.** Photos by Sisse Brimberg. NGS research grant. 122-134, Feb; On Assignment. Feb
- Earth: **International Space Year: Moon Flights Revisited.** On Television. May; Satellite image during solar eclipse 38-39 May; see also Plate tectonics
- Earthquakes: **Did Trumpets or a Quake Tumble Jericho's Walls?** Geographica. Jan; **Indian Ocean** map supplement. Jun
- East Anglia (region), England: **Bronze Age Way of Life Emerges in the Fens.** Geographica. Jan
- East Island, French Frigate Shoals, Hawaii: **Last Refuge of the Monk Seal.** By Diane Ackerman. Photos by Bill Curtsinger. 128-144, Jan

Elephants: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, Jan; Asian elephants 11, carrying tourists 22, 26-27, 28, mother and newborn 29, poaching 16 May  
 el-Hassan bin Talal, Crown Prince (Jordan) 98 Jun  
 Eliot, John L., author: *Bikini's Nuclear Graveyard*. Photos by Bill Curtsinger. 70-83, Jun  
 Elispor, Rosa 59 Feb  
 Elizabeth Islands, Mass. 116, 121, 125, 128 Jun  
 Ellenbogen, Richard 66 Jun  
 Ellis, William S., author: *The Gift of Gardening*. Photos by Sam Abell. 52-81, May  
 Ellison, Curtis 9 Feb  
 Elmina Castle, Ghana 23 Jan; *Spain in the Americas* map supplement. Feb  
 Elmza, Ahmed 96, 101 Jan  
 El Plomo (peak), Chile-Argentina: Mummy 99 Mar  
 El Pomar Foundation. President's Page. Mar  
 El Roció (festival), El Roció, Spain 19-20 Apr; Origin 7 Apr; Pilgrimage 6-7, 19 Apr  
 Elson, Andy. On Television. May  
 El Toro (peak), Chile-Argentina: Inca sacrificial victim 95, 102 Mar  
 Emerald Bay, Calif.: Development controversy 127 Mar  
*Emilia huxleyi*: *A Bloom of Algae as Big as Britain*. Geographica. Apr  
 Emmons, Louise: *Small Animals Help Plant a Big Flower*. Geographica. Apr  
 Empire Plaza, Lisbon, Portugal 31 Jan  
 Endangered and threatened species: Apes 13, 14 Mar; *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May; see also Eagles; Florida panthers; Lemurs; Monk seals; Red wolves; Trumpeter swans  
 England: *British Leap to Save Amorous Amphibians*. Earth Almanac. Mar; *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan; *Nosy Detective to Monitor River Thames Pollution*. Earth Almanac. Jan; *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. Mar  
 English, William 98 Jan  
 Enriquez de Arana, Beatriz 32, 38 Jan  
 Entertainment industry: *Sunset Boulevard: Street to the Stars*. By Rick Gore. Photos by Steve McCurry. 40-69, Jun  
 Environmental Hygiene Agency (U. S. Army): Study of oil fire pollutants on humans 129 Feb  
 Environmental legislation: *California Puts a Charge Into Electric Carmakers*. Earth Almanac. Jan  
 Environmental Protection Agency see U. S. Environmental Protection Agency  
*An Epic Eclipse for Southern California*. Earth Almanac. May  
*Epischura baicalensis* 20 Jun  
 Equateur (province), Zaire see Wamba forest  
 Erakat, Saeb 100 Jun

Erez checkpoint, Gaza Strip-Israeli border 88, 99 Jun  
 Eric Hamber Secondary School, Vancouver, British Columbia 113-114 Apr  
 Erickson, Carl: *Aye-aye, Sir: There's Food in These Timbers*. Geographica. Mar  
 Erosion: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb  
 Espenshade, Christopher: *From Civil War Camp to Resort Community*. Geographica. Jun  
 Espinoza, Ed: *Mammoth Lode of Ivory from the Pleistocene*. Earth Almanac. Jan  
 Espiritu Santo (island), Vanuatu: *Photographic Debut for a Pacific Starling*. Geographica. Jun  
 Estes, Dick 130 Apr  
 Estivation: *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr  
 "Eternal Enemies: Lions and Hyenas" (NGS television special): *Pride versus Clan in Botswana*. On Television. Jan; Cover announcement. Jan  
 Ethanol see Alcohol  
 Ethnology: *Clothing Styles Adapt as Two Cultures Meet*. Geographica. Jan  
 Ethylene glycol 7 Feb  
 Europe: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; see also Finland; France; Great Britain; Italy; Spain  
 European Community: Effect on Spanish economy 12, 23 Apr  
*Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr  
 Everest, Mount, China-Nepal: *Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr; On Television. May  
 Evolution: *Apelike Jaw—Clue to Human Origins?* Geographica. Mar; *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar; DNA research 121 May; Primate family tree 51 Mar  
 EXPLORER (cable television series): "Crater of the Rain God." On Television. Apr  
 "The Great Everest Balloon Race." On Television. May  
 "Savage Paradise." On Television. Apr  
 "Sea Trek." On Television. Jun  
 "Secret World of the Chimpanzee." On Television. Mar  
 "Tides of War." On Television. Feb  
 Explorers, discoverers, and navigators see Columbus, Christopher; Pizarro, Francisco  
 Expo '92, Seville, Spain 13, 28 Apr  
 Extinct species: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb  
*Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar  
 Eyre, Chris 85 Jan  
 Eyre, Lake, South Australia, Australia 74 Apr  
 Eyre Creek, Australia 90, 91 Apr

## F

F-15 training mission 50-51 May  
 FAA see Federal Aviation Administration  
 FAE see Fetal alcohol effect  
 FAS see Fetal alcohol syndrome  
 Fadlallah, Yusef 133 Feb  
 Fair, T. Willard 109 Jan  
 Faircloth, Jean see MacArthur, Jean  
 False Creek, Vancouver, British Columbia: Planned development 105 Apr  
 Faragalli, Robin Reiter 93 Jan  
 Farberow, Bobbie 68 Jun  
 Farlow, Melissa, photographer: *Blackwater Country*. By Richard Conniff. 34-63, Apr; On Assignment. Apr  
 Farms: *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. Mar  
 Fashion show: Madrid, Spain 20-21 Apr  
 Faults and faulting see Plate tectonics  
 Fay, J. Michael 15, 38 Mar  
 Federal Aviation Administration (FAA): *Skies to Become Quieter, Cleaner—and Costlier*. Earth Almanac. Jun  
 Fejka, Caralynn: *Crusader for Earth Also Fights a Personal Battle*. Earth Almanac. May  
 Fellows, Ray and Majorie 118 Mar  
 Feng shui 106 Apr  
 The Fens, England: *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan  
 Feral animals: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb  
 Ferdinand II, King (Aragon) 30 Jan; Recall of Columbus to Spain 52 Jan  
 Ferguson, Graham: *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. May  
 Ferrets, black-footed: Endangerment 136 Apr  
 Fetal alcohol effect (FAE) 19, 38 Feb  
 Fetal alcohol syndrome (FAS) 19, 34 Feb; *Fetal Alcohol Syndrome: The Preventable Tragedy*. By George Steinmetz. 36-39, Feb  
 Fields, Dorothy 109 Jan  
 Fieschi, Giannetto 12 Jan  
 Figueroa, Sandra 49 Jun  
 Figurines: Inca 105 Feb, 88-90, 109 Mar; Taino ceramic faces 44 Jan  
 Film industry: Rise in production costs 58 Jun  
 Finisterre, Spain 30 Apr  
 Finke River, Australia: Riverbed 72 Apr  
 Finland: Alcoholism 15, 20 Feb; Drunk driver checkpoint 14-15, 20 Feb  
 Fishes: *Deep Research Reveals Cod "Highways."* Geographica. Jun; *Nosy Detective to Monitor River Thames Pollution*. Earth Almanac. Jan; *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr; *To a Sandperch, It's All in a Night's Work*. Geographica. Jan  
 Fishing cats: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr



Fishing industry: *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. Apr

Flag Fen, East Anglia, England: *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan

Flagler, Henry 98-99 Jan

Flies, biting 126 Apr; Ngorongoro lion epidemic (1962) 126, 133, victim 127 Apr

The Flood (biblical tale): *Dead Sea Scroll Edits the Story of the Flood*. Geographica. Apr

Florida: Alligators, suburban encroachment 69, 89, removal 89 Feb; *Blackwater Country*. By Richard Conniff. Photos by Melissa Farlow. 34-63, Apr; *Miami*. By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, Jan

Florida Folk Festival 56 Apr

Florida panthers 51, 136 Apr; Breeding program 43, 51, 57 Apr

Flowers: *The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. 52-81, May; *Small Animals Help Plant a Big Flower*. Geographica. Apr

Floyds Island, Ga.: Gas-lit cabin 48 Apr

Fluty, Mike 125 Mar

Foley, Robert 27 Mar

Folk medicine: Curse removal 60 Jun; Gorilla hands for sale 21 Mar

Folklore: *Science Supports Ancient Legends*. Geographica. Mar

Folkston, Ga.: Development 56 Apr; Sludge dumping 56-57 Apr

Fontanarossa, Susanna 12 Jan

Food: *In the Azores, a Volcano Makes the Cooking Easy*. Geographica. Jun; *Spain in the Americas; The Grand Exchange map supplement*. Feb

Foot, human: Egyptian mummy 120, 121 May

"For All Mankind" (film): *International Space Year: Moon Flights Revisited*. On Television. May

Forests see Deforestation; Reforestation

Forever Young (rock group) 57 Jun

Forté, Miranda 117 Jun

Forty-niner pageant: Lake Tahoe 128, 129 Mar

Fosbrooke, Henry 126, 127, 130, 133 Apr

Fossey, Dian 5, 10, 13, 42 Mar

Fossils: *Apelike Jaw—Clue to Human Origins?* Geographica. Mar; *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. May

Foster, Stephen 56 Apr

Four Alaska Families Brave Winter and Wilderness. On Television. Apr

Four Holes Swamp, S. C.: Wild turkeys 76, 77 Feb

Four-horned antelope 22 May

France: Alcohol consumption 11, 19, 21 Feb; Alcoholic mortality 11, 21 Feb; Wine drinking, by children 18 Feb; World War I cemetery 63 Mar

Francis Beider Forest, S. C.: Wild turkeys 76, 77 Feb

Franco, Francisco 4, 8, 12, 22 Apr

Franklin, Stuart, photographer: *Pizarro, Conqueror of the Inca*. By John Hemming. 90-121, Feb

Franklin-Barbajosa, Cassandra, author: *DNA Profiling: The New Science of Identity*. Photos by Peter Menzel. 112-124, May

Frémont, John C.: Sighting of Lake Tahoe 114, 115 Mar

French Belon oysters: Farming 123 Jun

French Frigate Shoals, Hawaii: *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curt-singer. 128-144, Jan

Freng, Steve 30 Feb

Friends Hospital, Philadelphia, Pa.: Horticultural therapy 64 May

Froelicher, F. Charles. President's Page. Mar

Frolikha Bay, Lake Baikal, Russia: Freshwater sponges 38 Jun; Hydro-thermal vent study 17, 38, 39 Jun

From a Water Hazard, Clues to Golf History. Geographica. Feb

From Bronze Age Wreck, "More of Everything." Geographica. May

From Civil War Camp to Resort Community. Geographica. Jun

From the President see The President's Report on the Education Foundation

Fuchs, Yaacov 57 Feb

Fungi: *Biopesticides Take Aim With Natural Allies*. Earth Almanac. Feb

Furgurson, Ernest B., author: *Lake Tahoe—Playing for High Stakes*. Photos by George F. Mobley. 113-132, Mar

Furnas (volcano), São Miguel Island, Azores: *In the Azores, a Volcano Makes the Cooking Easy*. Geographica. Jun

"Fuzzy Wuzzy Angels": Member 70, 71 Mar

## G

Gabon: Chimpanzee population 13 Mar

Gainey, Ryan 73, 77 May

Gala, Antonio 14 Apr

Galápagos Riit, Pacific Ocean. *Pacific Ocean map supplement*. Jun

Galdikas, Biruté 10, 13, 40-41 Mar

Galicia (region), Spain: Clam harvest 26-27 Apr; Fisherman 15 Apr

Galician language 12, 13, 14 Apr

Gallo, Antonio 12 Jan

Gallo, Isla del, Colombia 100-101 Feb; Mutiny against Pizarro 94, 98, 100-101, 102, painting 98-99 Feb

Gallo Winery see E. & J. Gallo Winery

Gamsakhurdia, Zviad 88, 97, 99, 101 May

Gamsakhurdia regime: Protests against (1991) 88, 89, 93, 97, 99, 100, 101 May

Garbage: *Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr; *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar

Gardens: Chinese garden 110-111 Apr; *The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. 52-81, May; Zen garden 74-75 May

Gardner, Beatrix T. 30 Mar

Gardner, R. Allen 30 Mar

Garfield, Dianna 130 Jun

Garfield, Seth 123, 125, 128 Jun

Garfield, Wye, and grandchildren 114-115 Jun

Garlic: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. May

Gastown, Vancouver, British Columbia 102 Apr

Gastritis: Alcohol-induced 19, 20 Feb

Gates Foundation. President's Page. Mar

Gateway god (Tiahuanaco): Pectoral disk image 101, 108 Mar

Gatorland, Orlando, Fla.: "Gator Jumparoo" 88 Feb

Gaurs 11, 22 May; Skulls 10 May

Gavials, club-snouted 4, 4-5, 19 May; Hatchling 19 May

Gay and Lesbian Adolescent Social Services Center, Los Angeles, Calif.: Youth foster home 54 Jun

Gay bashing: Los Angeles 47 Jun

Gaza Strip: *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun

Gazzarri's, Los Angeles, Calif.: Rock performers 57 Jun

Gecko 81 Jan

Geese, Canada: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb

Gehman, Raymond, photographer: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. 66-89, Feb; On Assignment. Feb

Gelberg, Lillian 67 Jun

Genesis. Book of: *Dead Sea Scroll Edits the Story of the Flood*. Geographica. Apr

Genetic Erosion: A Global Dilemma. By Stephen J. O'Brien. 136, Apr

Genetics: *Captives in the Wild*. By Craig Packer. NGS research grant. 122-136, Apr; *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, May

Genoa, Italy: *Search for Columbus*. By Eugene Lyon. Photos by Bob Sacha. 2-39, Jan

Gentry, Tony 36 Mar

Geography education: *Kids Network Sends Data to Russia, With Love*. By Gilbert M. Grosvenor. President's Page. Jun; *A Million Ways to Boost Geography Education*. By Gilbert M. Grosvenor. President's Page. Mar

Geology: *Changing the Face of Earth*. By Carolyn H. Anderson. *Indian Ocean map supplement*. Jun; *An Open-air Textbook: Lessons in Stone*. Geographica. Jun

George, Len 118, 120, 121 Apr

Georgia: *Blackwater Country*. By Richard Conniff. Photos by Melissa Farlow. 34-63, Apr

Georgia, Republic of: Drinking celebration 2-3 Feb; *Georgia Fights for Nationhood*. By Angus Roxburgh. Photos by Tomasz Tomaszewski. 82-111, May; Grape harvest 4-5 Feb; Wedding cake 6 Feb

Georgia State University/Yerkes Language Research Center, near Atlanta, Ga. 32-33, 34, 34 Mar

Georgian Orthodox cathedral, Alavardi, Republic of Georgia: Parish-ioner lighting candle **90-91 May**  
 Geothermal energy *see* Hydrothermal vents  
 Geraldini, Alejandro: Description of 16th-century Santo Domingo **97 Feb**  
 Germany: Beer consumption **11 Feb**  
 Getty Center, Los Angeles, Calif. **67 Jun**  
 Ghana: Gold discovery **24 Jan**; Gold prospecting **24-25 Jan**; Palm oil preparation **22-23 Jan**  
 Ghost crabs **66 Jan**, On Assignment. *Jan*  
 Ghost shrimp: *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. *Feb*  
 Ghunaym, Khulud **106 Jun**  
 Giacaman, Rita **108, 112-113 Jun**  
 Gibbons, Boyd, author: *Alcohol, the Legal Drug*. Photos by George Steinmetz. **2-35, Feb**  
 Gibbons **13, 14, 16, 16 Mar**; Range maps **13 Mar**  
 Gifts, Courtney **53 Jun**  
*The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. **52-81, May**  
 Gilbert, Dennis **130 Apr**  
 Gilman, Howard **51, 57 Apr**  
 Gilman Paper Company **50-51, 53-54 Apr**; Florida panther breeding program **43, 51, 57 Apr**; Sludge dumping **50, 56-57 Apr**  
 Gilmartin, William: *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Cursinger. **128-144, Jan**  
 Giltburg, Boris **53 Feb**  
 Gin (spirit): Influx into London, 18th century **11 Feb**; Word origin **7 Feb**  
 "Gin Lane" (Hogarth) **11 Feb**  
 Gir National Park, Gujarat, India: Asiatic lions **21, 21 May**  
 Giraffes: Diet **61, 75 Jan**; Lion kill **84-85 Jan**; Namib Desert **60-61 Jan**  
 Gitksan people: *Science Supports Ancient Legends*. Geographica. *Mar*  
 Giza, Egypt: *Uncovering the Lives of the Pyramid Builders*. Geographica. *May*  
 Glaciers: Andean sacred glaciers **95, 98 Mar**; *Tales of Climate Change Held Deep in the Ice*. Geographica. *Jun*  
 Glan, Veronica **62, 63 Feb**  
 GLASS House **54 Jun**  
 Gleizer, Michel and Esther **60-61 Feb**  
 Glenn, Carl, Jr. **53, 54 Apr**  
 A Global Dilemma: *Genetic Erosion*. By Stephen J. O'Brien. **136, Apr**  
 Global Positioning System: *Smart Cars Map Route to the 21st Century*. Geographica. *Feb*  
 Global warming: *A Bloom of Algae as Big as Britain*. Geographica. *Apr*; *Tales of Climate Change Held Deep in the Ice*. Geographica. *Jun*  
 Goad, Bob **90, 91 Apr**  
 Goannas **71, 85 Apr**  
 Goats: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. *Feb*; *see also* Mountain goats  
 Gochilaidez, Zezva **108, 110 May**  
 Godin Tepe, Iran: *Ancient Wine: Piecing Together the Evidence*. Geographica. *Mar*

Gold: Atahualpa's ransom **105 Feb**; Columbus's search for **42, 44-45 Jan**; Prospecting, Ghana **24-25 Jan**  
 Gold figurines, Inca **105 Feb, 109 Mar**  
 Gold rushes: *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. *Jun*; *British Columbia map supplement*. *Apr*  
 Goldberg, Jackie **48-49 Jun**  
 Golden Gate National Recreation Area, Calif.: *The Presidio Awaits a Changing of the Guard*. Geographica. *Mar*  
 Golden wheel spiders: *Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. *May*  
 Goldengorn, Boris **49 Feb**  
 Goldman, Charles R. **118, 122 Mar, 20 Jun**  
 Goldman, Tony **111, 113 Jan**  
 Golf: *From a Water Hazard, Clues to Golf History*. Geographica. *Feb*  
 Gombe National Park, Tanzania **7, 22, 33, 35 Mar**  
 Gomez, Elizabeth **52 Jun**  
 Goacet de los Reyes, Carmela **17-18 Apr**  
 Gonzales, Francisca **99 Feb**  
 Goodall, Jane **6, 7, 25 Mar**; Chimpanzee anti-captivity campaign **7, 25 Mar**; Chimpanzee research **12-13, 33, 38, NGS funding 10 Mar**; Chimpanzee sanctuary **25, 42 Mar**  
 Goodhart, Charles **36 Mar**  
 Goodyear-Zeppelin Corporation: Airship construction **116, 120 Jan**  
 Gorbachev, Mikhail **28, 44 Feb**  
 Gore, Rick, author: *Sunset Boulevard: Street to the Stars*. Photos by Steve McCurry. **40-69, Jun**  
 Gorgona Island, Colombia **102 Feb**  
 Gori, Republic of Georgia **88, 90-91 May**  
 Gorillas: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. **2-45, Mar**  
 Goryachinsk, Russia: Mineral baths **32-33 Jun**  
 Gosnold, Bartholomew **121 Jun**  
 Gottesfeld, Allen: *Science Supports Ancient Legends*. Geographica. *Mar*  
 Govindanagar, Uttar Pradesh, India **22-23, 26 May**  
 Grachev, Mikhail **17, 20, 36 Jun**  
 Granada, Kingdom of **30, 36 Jan**; Fort-tress **36-37 Jan**  
 Grand Central Terminal, New York, N. Y.: Oyster bar **123 Jun**  
 Grand March (1494) **42, 44 Jan**; Painting **42-43 Jan**  
 Grape cultivation: *Ancient Wine: Piecing Together the Evidence*. Geographica. *Mar*; Origins **5, 7 Feb**; Republic of Georgia **106-107 May**  
 Grappa Restaurant, Los Angeles, Calif.: Patrons **42-43 Jun**  
 Gray reef sharks **135, 135 Jan, 80-81 Jun**  
 Gray whales: *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. *Feb*  
 Gray's lark **79 Jan**  
 Great Artesian Basin, Australia **74 Apr**  
 Great Britain: Alcoholism, from beer **11 Feb**; Mandate over Palestine (1922-1948) **92 Jun**; *see also* England

*The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. **30-51, May**  
 "The Great Everest Balloon Race" (EXPLORER film): *Ballooning Over Mount Everest*. On Television. *May*  
 Great Smoky Mountains National Park, N. C.-Tenn.: Black bears **78-81 Feb**; *Red Wolves Return to Smoky Mountains*. Earth Almanac. *May*  
*The Great Soviet Exodus*. By Tad Szulc. Photos by James Nachtwey. **40-65, Feb**  
 Great White Spot: *Summer's Stormy Weather: the Great White Spot*. Geographica. *Mar*  
 Grech, Chris **117, 118 Jan**  
 Greek Orthodox church, West Bank **92-93 Jun**  
 Greenhouse effect: *A Bloom of Algae as Big as Britain*. Geographica. *Apr*; *Tales of Climate Change Held Deep in the Ice*. Geographica. *Jun*  
 Greenland icecap: *Tales of Climate Change Held Deep in the Ice*. Geographica. *Jun*  
 Griffith, Lem **62 Apr**  
 Grinberg, Larisa and Sasha **44 Feb**  
 Gross, Harvey **126 Mar**  
 Grosvenor, Gilbert M. *see* The President's Report on the Education Foundation  
 Grouse Mountain's Spring Carnival, Vancouver, British Columbia **111 Apr**  
 Grubinger, Vern **55 May**  
 Guangdong Province, China: Immigration to Vancouver, B. C. (1880s) **102, 108, 110 Apr**  
 Guatemala: Good Friday celebrants **22-23 Feb**  
 Guertler family **114-115 May**; DNA fingerprints **115 May**  
 Guillaume, Lena **105 Jan**  
 Guinea: Chimpanzee research **38, 40 Mar**  
 Gurjaani, Republic of Georgia: Presidential visit **99, 101 May**  
 Gutner, Basia **56 Feb**  
 Guyer, Allen **44 May**  
 Gymkhanas: Australia **77, 80, 90 Apr**

## H

HDL cholesterol: Increase derived from alcohol consumption **9 Feb**  
 HIV research: Chimpanzees **29, 30, 30-31, 42, 44-45 Mar**  
 Hackerbräu's brewery tent, Munich, Germany: Oktoberfest **10 Feb**  
 Haida Indians: *Haida Spirit Rides On in a Bronze Canoe*. Geographica. *Apr*; Raids on Musqueam **102 Apr**  
 Haifa, Israel: Ballet company **62, performer 63 Feb**; SCUD missile attacks (1991) **46 Feb**  
 Hall, Betsy, and nephews **67 May**  
 Hall, Jim **95 Jan**  
 Halstead, Stretch **64, 65 Apr**  
 Hamas (Islamic fundamentalist group) **98 Jun**  
 Hamilton, Charles **13, 17, 25-26, 34 Jan**  
 Hamu, Yehiel **58 Feb**

- Hanby, Jeannette 125, 126, 132 *Apr*  
 Handja, Joe 106 *Apr*  
 Hanging Gardens (hydrothermal site). *Pacific Ocean* map supplement. *Jun*  
 Hangover cures: Myths 15 *Feb*  
 Hannah, Lee: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. *Feb*  
 Harder, Tracy Ann 130 *Mar*  
 Harlin, Greg: Paintings by 128-129, 134-135 *Apr*  
 Harrelson, Woody 58 *Jun*  
 Harvester ants 81 *Jan*  
 Harvester termites 75 *Jan*  
 Harvey, David Alan, photographer: *The New World of Spain*. By Bill Bryson. 3-33, *Apr*; On Assignment. *Apr*  
 Harvey's casino, Stateline, Nev. 126 *Mar*  
 Hastings Mill, Vancouver, British Columbia 102 *Apr*  
 Hausman, Selwyn 80 *Apr*  
 Hauswirth, William 121 *May*  
 Havana, Cuba: Columbus's reputed interment 39 *Jan*  
 Hawaii: *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, *May*  
 Hawaiian Islands National Wildlife Refuge, Hawaii: *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, *Jan*  
 Hawaiian monk seals: *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, *Jan*  
 Hawass, Zahi: *Uncovering the Lives of the Pyramid Builders*. Geographica. *May*  
 Hawkes, Paul 81 *May*  
 Hawksworth, Jim 114, 132 *Mar*  
 Hayes, Geraldine 72 *May*  
 Headley, Charles 95 *Jan*  
 Headon, Denis R.: *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. *Mar*  
 Heale, Ellen: *Sprouded Deep in a Mine, Trees Restore the Surface*. Earth Almanac. *Jan*  
 Heart disease: Enlarged heart 14, 19 *Feb*; Preventive benefits of alcohol 9, 12, 20 *Feb*; Risks of alcoholic excess 12, 13, 14, 15, 19, 20 *Feb*  
 Heart research: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. *Apr*  
 Heavenly Ski Resort, Lake Tahoe, Nev. 127, 130-131 *Mar*  
 Hebron, West Bank 64 *Feb*; Holy site 93 *Jun*  
 Hefner, Hugh 65-66 *Jun*  
 Heilman, John 63 *Jun*  
 Helen K. and Arthur E. Johnson Foundation. President's Page. *Mar*  
 Helium: Discovery 36-37 *May*  
 Helldiver aircraft: Submerged wreck-age 77 *Jun*  
 Hellier, Robin. On Television. *Jun*  
 Helming, Dennis 31 *Mar*  
 Helsinki, Finland: Drunk driver checkpoint 14-15, 20 *Feb*  
 Hemlock Farms, Pocono Mountains, Pa.: White-tailed deer 73 *Feb*  
 Hemming, John, author: *Pizarro, Conqueror of the Inca*. Photos by Stuart Franklin. 90-121, *Feb*  
 Hen and chickens (plant) 59 *May*  
 Henderson, Thomas 118 *Jan*  
 Henry the Navigator, Prince (Portugal) 7, 24 *Jan*  
 Henschel, Johannes: *Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. *May*  
 Hepatitis B: Vaccine development 29 *Mar*  
 Herbranson, Janice: *To a Teacher, Home Is Where the Pupils Are*. Geographica. *May*  
 Heredity: *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, *May*  
 Hicks, Bruce 129 *Feb*  
 Hidalgo, Javier 20 *Apr*  
 Hierro (island), Canary Islands: Sabina trees 32-33 *Jan*  
 High Altitude Gardens, Ketchum, Idaho 72 *May*; Seeds 72 *May*  
 Highways and roads: Deer hazard 68, 72, 73 *Feb*; see also Drunk driving  
 Hildinger, Jim 131-132 *Mar*  
 Hilton Head Island, S. C.: *From Civil War Camp to Resort Community*. Geographica. *Jun*  
 Himalaya, Asia: *Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. *Apr*; On Television. *May*  
 Himalayan monals: Chicks 23 *May*  
 Himba tribespeople: Eco-tourism project 85 *Jan*; Livestock 80 *Jan*  
 Hirao, Keiji, and wife: Wedding 26 *Feb*  
 Hirohito, Emperor (Japan): Appearance with MacArthur 73 *Mar*  
 Hispanic Americans: *Miami*. By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, *Jan*  
 Hispaniola (island), West Indies: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, *Jan*  
 History of All Things and All Deeds (Sylvius) 33, 34 *Jan*; Columbus's adendum 33 *Jan*  
 Hoanib River, Namibia 66 *Jan*; Floodplain 71, 82-83 *Jan*  
 Hoarusib River, Namibia 56-57, 66 *Jan*  
 Hobbs, Peter 128, 130 *Feb*  
 Hoffman, Larry 131 *Mar*  
 Hofman, Robert J.: *Bear of an Issue Surfaces Over Arctic Drilling*. Earth Almanac. *Mar*  
 Hojeda, Alonso de: Mutilation of Taino chief, painting 50 *Jan*  
 Hollywood, Los Angeles, Calif.: *Sunset Boulevard: Street to the Stars*. By Rick Gore. Photos by Steve McCurry. 40-69, *Jun*  
 Hollywood Boulevard, Los Angeles, Calif.: Walk of Fame 54-55, 55 *Jun*  
 Hollywood High School, Los Angeles, Calif.: ROTC drill team 65 *Jun*  
 Holmby Hills, Los Angeles, Calif.: Patio party 68-69 *Jun*  
 Holmes, Martha. On Television. *Jun*  
 Holy Week celebrations: Italy 27 *Jan*; Peru 108-109 *Feb*; Spain 16-17, 17, 19, 32 *Apr*  
 Home Gardening Project, Portland, Oreg. 80 *May*  
 The homeless: Medical care, street-side 66-67 *Jun*  
 Hominids: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, *Mar*  
 Hominoids: *Apelike Jaw—Clue to Human Origins?* Geographica. *Mar*  
 Hong Kong: Emigration to Vancouver, B. C. 105-106, 109-111, 113 *Apr*  
 Hong-fei, Hou: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*  
 Hooper, Rick 101 *Jun*  
 Hoover, Herbert: Bonus Army 65 *Mar*  
 Horne, Patrick 99 *Mar*  
 Horns, rhinoceros 27 *May*; Profit for smugglers 27 *May*  
 Horses: Role in Spanish conquest 111, 112 *Feb*  
 Horses, wild: *No Quarter: Australia Targets Alien Animals*. Earth Almanac. *Feb*; *Wild Asian Horse to Return Home*. Geographica. *Mar*  
 Horticultural therapy 58, 60, 64, 80 *May*  
 Horticulture: *The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. 52-81, *May*  
 Hospital 17, Moscow, Russia: Detoxification program 29-30 *Feb*  
 Hot springs: Lake Baikal resort 32-33 *Jun*  
 Hourston, Greg 107 *Apr*  
 Hourston, Rod 107 *Apr*  
 Houston (cruiser) 118 *Jan*  
 Howard Hughes Medical Institute, Salt Lake City, Utah: DNA research 112-113 *May*  
 Howler monkeys: Brain size 24 *Mar*  
 Howletts Zoo Park, Kent, England 21, 41 *Mar*  
 Hristian, David 62 *Feb*  
 Huai Kha Khaeng, Thailand: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. *Apr*  
 Huascar (Inca emperor) 103 *Feb*  
 Huayna Capac (Inca emperor) 94 *Feb*; Death 103 *Feb*  
 Huayna Picchu (mountain), Peru: Inca carvings 110 *Mar*  
 Human behavior: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, *Mar*  
 Human sacrifice: *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, *Mar*  
 Humboldt Bay, Calif.: *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. *Feb*  
 Hungary: Liver cirrhosis mortality 21 *Feb*  
 Hunter, Bobby 75 *Apr*  
 Hunter, Debbie 118 *Mar*  
 Hunter, John Paul 118, 129, 132 *Jun*  
 Hunting: Black bears 78 *Feb*; Canada geese 69 *Feb*; Chimpanzees 27, hunter 26 *Mar*; Deer 72-73, 73 *Feb*; Gorillas 15, 21 *Mar*; Wildlife management approach 69, 72, 73 *Feb*  
 Hunt's Alligator Breeding Ranch, Bushnell, Fla.: Harvested alligators 89 *Feb*

Hurricane Bob (1991): Cuttyhunk Island **126-127, 128 Jun**  
 Hussein, Faisal **94 Jun**  
 Hutchison, Steve **105 Apr**  
 Huxley, Anthony **58 May**  
 Huyler, Stephen and Helene **69 May**  
 Hydrofoils: *It's a Plane! It's a Boat! It's a Record Holder!* Geographica. May  
 Hydrogen bomb testing *see* Bravo  
 Hydrothermal vents: *Deep-Sea Vents: Worlds Without Sun.* By Michael Kenna. *Pacific Ocean* map supplement. *Jun*; Lake Baikal study **17, 38-39 Jun**  
 Hyenas. On Television. *Jan*  
 Hyman, Barbara. President's Page. *Jun*  
 Hynes, Robert: Diagram by **51 Mar**; Painting by **16-18 Mar**  
 Hypertension: Alcohol-induced **15, 21 Feb**

**I**

Ibiza (island), Balearic Islands: Disco dance floor **4-5 Apr**  
 Ice Age: *Mammoth Lode of Ivory From the Pleistocene.* Earth Almanac. *Jan*  
 Ice-core research: *Tales of Climate Change Held Deep in the Ice.* Geographica. *Jun*  
 Ice fishing: Lake Baikal **15 Jun**  
 Ice floes: Lake Baikal **10 Jun**  
 Ichilov Hospital, Tel Aviv, Israel: Operating room **57 Feb**  
 Icons, Inca shell **90 Mar**  
 Illampu-Ancocuma massif, Bolivia: Aymara legend **101 Mar**  
 Illimani (peak), Bolivia: Aymara reference **91, 92 Mar**  
*Imago Mundi* (d'Ailly) **34 Jan**; Columbus's notations **17, 35 Jan**  
 Immigration: *The Great Soviet Exodus.* By Tad Szulc. Photos by James Nachtwey. **40-65, Feb**; Miami **92, 94, 97, 99-101 Jan**; Vancouver, B. C. **105-106, 109-111, 113 Apr**  
 Immunosuppression: Alcohol-induced **19 Feb**; *see also* AIDS research  
 In the Azores, a Volcano Makes the Cooking Easy. Geographica. *Jun*  
 Inbreeding: Genetic vulnerabilities **125, 130, 136 Apr**; Ngorongoro Crater lion population **133**, family tree **134-135 Apr**; Right whales **124 May**  
 The Inca: *Pizarro, Conqueror of the Inca.* By John Hemming. Photos by Stuart Franklin. **90-121, Feb**; *Sacred Peaks of the Andes.* By Johan Reinhard. NGS research grant. **84-111, Mar**; *Spain in the Americas* map supplement. *Feb*  
 Incheon Harbor, South Korea: Clamming **78-79 Mar**; Landing of UN forces **78 Mar**  
 Incline Village, Lake Tahoe, Nev. **127 Mar**  
 Inco Limited: *Sprouted Deep in a Mine, Trees Restore the Surface.* Earth Almanac. *Jan*  
 Independent Cat Opens the Vatican's Portals. Geographica. *Jan*  
 India: *India's Wildlife Dilemma.* By Geoffrey C. Ward. Photos by Raghu Rai. **2-29, May**

Indian Creek Village (island), Fla.: Security **109 Jan**  
 Indian Ocean: *Pacific Ocean; Indian Ocean, World Ocean Floors* map series supplement. *Jun*  
 Indians of North America: Alcohol-related statistics **34 Feb**; *British Columbia, The Making of Canada* map series supplement. *Apr*; *Haida Spirit Rides On in a Bronze Canoe.* Geographica. *Apr*; *Science Supports Ancient Legends.* Geographica. *Mar*; *see also* tribes by name  
 Indians of Central America *see* Nahuatl Indians  
 Indians of South America: *Pizarro, Conqueror of the Inca.* By John Hemming. Photos by Stuart Franklin. **90-121, Feb**; *Sacred Peaks of the Andes.* By Johan Reinhard. NGS research grant. **84-111, Mar**  
 India's Wildlife Dilemma. By Geoffrey C. Ward. Photos by Raghu Rai. **2-29, May**  
 Indonesia: *Extra Exploitation—Orangutan Skulls for Sale.* Earth Almanac. *Mar*; Orangutans **43**, orphans **40-41 Mar**; Researcher **42 Mar**  
 Infanticide: Great apes **13 Mar**  
 Infants: *Babies Cry Out: Garlic, Yes; Alcohol, No.* Geographica. *May*; *Can Seal Pup Biology Help Save Infant Lives?* Geographica. *Apr*; *see also* Fetal alcohol syndrome  
 Insects *see* Ants; Beetles; Cockroaches; Flies, biting; Wasps  
 Institute of Nautical Archaeology: *From Bronze Age Wreck, "More of Everything."* Geographica. *May*  
 International Space Year: *Moon Flights Revisited.* On Television. *May*  
 Interns for Peace summer camp, Israel: Campers **112-113 Jun**  
 Interstate 68: *An Open-air Textbook: Lessons in Stone.* Geographica. *Jun*  
 Inti Raymi festival **92-93 Feb**  
*intifada* (Palestinian uprising): *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. **84-113, Jun**  
 Iowa: *Kids Network Sends Data to Russia, With Love.* By Gilbert M. Grosvenor. President's Page. *Jun*; *Power to the Prairie on an Iowa Refuge.* Earth Almanac. *Mar*  
 Ip, Joseph **106, 121 Apr**  
 Iran: *Ancient Wine: Piecing Together the Evidence.* Geographica. *Mar*  
 Iraq: Treatment of Palestinians **107, 107 Jun**  
 Isabella I, Queen (Castile and Aragon) **30 Jan**; Displeasure with Columbus **52 Jan**  
 Island of the Sun, Lake Titicaca, Bolivia **107 Mar**; Inca ceremonial workshop **101, 103, 109 Mar**  
 Isoropanol **7 Feb**  
 Israel, Yedy **25 Feb**  
 Israel: *The Great Soviet Exodus.* By Tad Szulc. Photos by James Nachtwey. **40-65, Feb**; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. **84-113, Jun**  
 Israel family (spiritual community), Arlington, Wash. **62-63, 69 May**  
 Israeli army: Human rights abuses **104 Jun**

*It's a Plane! It's a Boat! It's a Record Holder!* Geographica. *May*  
 Italy: Alcohol consumption **27-28 Feb**; Liver cirrhosis mortality **27 Feb**  
 Ito, Masanori **78 Jun**  
 Ivory Coast *see* Côte d'Ivoire  
 Ivory trade: *Mammoth Lode of Ivory From the Pleistocene.* Earth Almanac. *Jan*  
 Izquierdo, Cristóbal **24-25 Apr**

## J

J. Paul Getty Trust **67 Jun**  
 Jackal, black-backed **62-63 Jan**  
 Jackson, Harry **47 Apr**  
 Jacobo, Austin **70 May**  
 Jacobsohn, Margaret **85 Jan**  
 Jacobson, Laurie **55, 60 Jun**  
 Jane Goodall Institute: Congo chimpanzee reserve **25, 42 Mar**  
 Janzen, Rose Ann **113 Apr**  
 Japan: Attack on Philippines **67, 69, 70 Mar**; MacArthur legacy **54, 73, 74, 76-77 Mar**; *Walls of Death, Drift Nets Will Kill No More.* Earth Almanac. *Apr*  
 Japanese garden, Bloedel Reserve, Bainbridge Island, Wash. **74-75 May**  
 Japanese people: Alcohol intolerance **27 Feb**; Business and alcohol consumption **27 Feb**  
 Japanese red mustard **79 May**  
 Jeanne B's restaurant, Mos Landing, Calif. **117, 118 Jan**  
 Jeeper's Jamboree, Annual **127 Mar**  
 Jefferson, Thomas: Garden **80-81 May**  
 Jeffreys, Alec **116, 118, 119 May**  
 Jenkins, Ann and Bill **128 Jun**  
 Jenkins, Bette and Dave **128 Jun**  
 Jenkins, Scott: *Surfers Confront Polluters to Catch a Cleaner Wave.* Earth Almanac. *Feb*  
 Jerez, Francisco de **105, 108, 109 Feb**  
 Jerez de la Frontera, Spain: Courtyard **2-3 Apr**  
 Jericho, West Bank: *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. *Jan*  
 Jerusalem: Border police patrol **102-103 Jun**; Synagogue **55 Feb**; Terrorist attacks **59 Feb**; Western Wall **62 Feb**  
 Jerusalem, East: Home razing **89 Jun**; Military security **62 Feb**; Relations between Arabs and Jews **102, 104 Jun**  
 Jet aircraft: *Skies to Become Quieter, Cleaner—and Costlier.* Earth Almanac. *Jun*  
 Jewish Agency for Israel **45, 55 Feb**  
 Jews: *The Great Soviet Exodus.* By Tad Szulc. Photos by James Nachtwey. **40-65, Feb**; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. **84-113, Jun**; *see also* Judaism  
 John II, King (Portugal): Columbus's requests for patronage **27, 30, 35 Jan**  
 Johnson, Fred: *Science Supports Ancient Legends.* Geographica. *Mar*  
 Johnson, Freddy **35 Feb**  
 Johnson, Hugh **19 Feb**  
 Jones, Tarleton **97 Jan**



Jordan: *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pineo. 84-113, *Jun*  
 Jordan Fault, Middle East: *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. *Jan*  
 Josephus, Flavius 33 *Jan*  
 Joubert, Beverly and Derek. On Television. *Jan*  
 Judean desert, Israel 50-51 *Feb*  
 Judaism: *Dead Sea Scroll Edits the Story of the Flood*. Geographica. *Apr*; see also *Jews*

## K

Kakashvili, Zaza 88, 90, 91 *May*  
 Kakheti Valley, Caucasus Mountains, Republic of Georgia: Grape harvest 4-5 *Feb*  
 Kanha National Park, Madhya Pradesh, India 20-22 *May*; Elephant with newborn 29 *May*  
 Kano, Takayoshi: *Bonobos, Chimpanzees With a Difference*. By Eugene Linden. Photos by Frans Lanting. 46-53, *Mar*  
 Kaokoveld (region), Namibia: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, *Jan*  
 Karanth, Ullas 11, 13 *May*  
 Karisoke Research Centre, Rwanda: Director 10 *Mar*  
 Karmiel, Israel: Tent city 56 *Feb*  
 Karpov, Igor 9 *Jun*  
 Karros, Eric 50 *Jun*  
 Katsura trees 67, 69 *May*  
 Katz, Roman 49, 53, 54-55 *Feb*  
 Katz, Solomon 7 *Feb*; *Ancient Wine: Piecing Together the Evidence*. Geographica. *Mar*  
 Kaziranga National Park, Assam, India: Elephants carrying tourists 26-27 *May*; One-horned rhinoceroses 24-25, 27 *May*; Poaching 27 *May*  
 Keck telescope, Mauna Kea Observatory, Hawaii 48, 49 *May*  
 Keeney, Calvin N.: Development of stringless snap bean 66 *May*  
 Keller, Terry 70 *May*  
 Kelly, Philip 132 *Jun*  
 Kemp, Rod 72, 73 *Feb*  
 Kendo: Schoolchildren in meditation 75 *Mar*  
 Kenna, Michael, author: *Deep-Sea Vents: Worlds Without Sun*. *Pacific Ocean* map supplement. *Jun*; *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, *Feb*  
 Kennedy, Robert S.: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. *Feb*  
 Kent County, Md.: Revenues from goose hunting 69 *Feb*  
 Kenyon, Karl 140 *Jan*  
 Keoladeo Ghana bird sanctuary, Rajasthan, India 20 *May*  
 Kermodes see *Ursus americanus kermodei*  
 Keshawi, Abed 112 *Jun*  
 Ketambe Research Station, Sumatra, Indonesia: Orangutan 43 *Mar*; Researcher 42 *Mar*  
 Key Biscayne, Fla.: Incorporation 110, 112 *Jan*

Khalsa School, Vancouver, British Columbia: Students 118, 119 *Apr*  
 Kheri District, Uttar Pradesh, India: Tigers 22, 23, 26 *May*  
 Khios see Chios  
 Khrushchev, Nikita: Industrialization of Lake Baikal 8 *Jun*  
 Kidd, Sharon 54 *Jun*  
 Kidman Holdings 73 *Apr*  
 Kids Network Sends Data to Russia, With Love. By Gilbert M. Grosvenor. President's Page. *Jun*  
 Kilburn, Al 115 *Apr*  
 Kili Island, Marshall Islands: Bikini Island refugees 83 *Jun*  
 Kimball, Kelly and Jessie 131 *Jun*  
 King County Detoxification Center, Seattle, Wash.: Inpatient 31 *Feb*  
 Kings Bay Naval Submarine Base, Ga. 53, 56 *Apr*  
 Kirkpatrick, David 56, 58 *Jun*  
 Kitaura, Kenji 41 *Mar*  
 Klaus, Ida 90-91 *Jan*  
 Koa reef, Lake Titicaca, Bolivia: Inca offerings 109 *Mar*; Tiahuanacan gold artifacts 107, 108, 109 *Mar*  
 Kokanee salmon 125, 125 *Mar*  
 Koko (gorilla): Doll replica 33 *Mar*; Sign language ability 30, 33 *Mar*  
 Kolbasov, Nikolai 23-25 *Jun*  
 Korea, South: Alcoholic excesses 25, 27 *Feb*; *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. *Apr*  
 Korean War (1950-1953): MacArthur's role 78, 80-82 *Mar*; U. S. veteran 79 *Mar*  
 Koreans: Alcohol intolerance 27 *Feb*  
 Kosayeva, Esma, and family 92-93 *May*  
 Kostava, Merab 98 *May*  
 Koutchmy, Serge 44, 47 *May*  
 Kraus, Scott 124 *May*  
 Krome Service Processing Center, Dade County, Fla.: Detentions 104-105, 105 *Jan*  
 Kuiseb River, Namibia: *Baboon Troop Adapts to Survive in the Desert*. Geographica. *Feb*  
 Kukrail Crocodile Breeding Centre, Uttar Pradesh, India: Club-snouted gavials 19 *May*  
 Kulitsky, Lev 58-59 *Feb*  
 Kumar, Rajesh 22, 26 *May*  
 Kurbulic, Russia: Shore 36 *Jun*  
 Kure Atoll, North Pacific Ocean: Monk seals 140, 141 *Jan*  
 Kuwait: Expulsion of Palestinians 96, 107, 107 *Jun*; *Persian Gulf Pollution: Assessing the Damage One Year Later*. By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, *Feb*  
 Kuznetsov, Alexander. President's Page. *Jun*  
 Kwajalein Atoll, Marshall Islands: Operation Crossroads 75 *Jun*  
 Kwakiutl Indians: *British Columbia* map supplement. *Apr*; Raids on Musqueam 100, 102 *Apr*

## L

Lacey Act (1900) 69 *Feb*  
 Lactation: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. *May*  
 Lahontan cutthroat trout 125 *Mar*

Laijo, Joji 83 *Jun*  
 La Isabela (settlement), Dominican Republic: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. Paintings by Arthur Shilstone. NGS research grant. 40-53, *Jan*  
 Lake Middle School, Denver, Colo.: Geography education program. President's Page. *Mar*  
 Lake Tahoe—Playing for High Stakes. By Ernest B. Furgurson. Photos by George F. Mobley. 113-132, *Mar*  
 Lam, Vince 106 *Apr*  
 Lamaist Buddhism: Suppression by Red Army 28-29 *Jun*  
 Lamas, Kathleen 53 *Jun*  
 Lamson (destroyer): Atomic test target 75 *Jun*  
 La Navidad (fort), Hispaniola: Destruction 42 *Jan*  
 Lancaster, Jane 36 *Mar*  
 Lane, Andrea 52 *Jun*  
 Lane, Gary: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*  
 Langton, Tom: *British Leap to Save Amorous Amphibians*. Earth Almanac. *Mar*  
 Language: Development in humans 27, 30 *Mar*; Use by apes 10, 30, 32-34, 34 *Mar*  
 Lanting, Frans, photographer: *Bonobos, Chimpanzees With a Difference*. By Eugene Linden. 46-53, *Mar*  
 La Rábida see Santa María de la Rábida  
 Lark, Gray's 79 *Jan*  
 Las Casas, Bartolomé de: Description of Grand March 42 *Jan*; Discovery of Columbus's log 8 *Jan*  
 Las Vegas, Nev.: Performing orangutan 39 *Mar*  
 Last Refuge of the Monk Seal. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, *Jan*  
 Lastrager (ship): *From a Water Hazard, Clues to Golf History*. Geographica. *Feb*  
 Launderette entertainer 54 *Jun*  
 Lavalle, Mónica Lemos de 122 *May*  
 Lawn care industry: Retail sales (1990) 55 *May*  
 Lawrence, David, Jr. 93 *Jan*  
 Lazarooff, Barbara 60 *Jun*  
 League to Save Lake Tahoe 127-128 *Mar*  
 Leakey, Louis 13 *Mar*  
 Leblanc, Carlos 30 *Apr*  
 Leblón Fernández, Camilo 28 *Apr*  
 L'École des Métiers de la Table, Paris, France: Wine stewardship instruction 20 *Feb*  
 Le Conte, John 118 *Mar*  
 Lee, Dan 45 *Apr*  
 Leen, Sarah, photographer: *Russia's Lake Baikal: The World's Great Lake*. By Don Belt. 2-39, *Jun*  
 Lehner, Mark: *Uncovering the Lives of the Pyramid Builders*. Geographica. *May*  
 Lehua (island), Hawaii: Monk seals 144 *Jan*  
 Lemmon, Gina 53 *Jun*  
 Lemos, Haydée 122, 123 *May*  
 Lemos, Maria 122 *May*  
 Lemos, Maria José Lavalle 122 *May*

LEMSIP, Sterling Forest, N. Y.: Chimpanzee research 42, 44-45, subject 30-31 Mar

Lemurs: *Aye-aye, Sir: There's Food in These Timbers*. Geographica. Mar

Lenihan, Dan 77, 83 Jun

Leone, Maria 109 Apr

Leopards 2-3, 15, 16 May

Lerner, Alexander 49 Feb

Lerner, Leonid 52 Feb

Lesser apes see Gibbons

Leukemia: Bone-marrow transplants 112, 120-121 May

Levin, Alex and Marina 56 Feb

Levi'sky, Bela and Vladimir 59 Feb

Lewis, Charles A. 60 May

Lewis, John: *Nosy Detective to Monitor River Thames Pollution*. Earth Almanac. Jan

Lewis, Sinclair: Alcoholism 11 Feb

Leyte Harbor, Philippines: MacArthur's return 66, 75, memorial 56-57 Mar

Lezama, Agustín 18-19 Apr

Lezama, Luis de 18-19 Apr

Li Ka Shing 105, 109 Apr

Liberia: Chimpanzee hunting 26 Mar; Medical research lab chimpanzees 28 Mar

Lightning: *Bolt From the Blue More Likely to Hit Men*. Geographica. Apr

Lima, Peru: Founding 116 Feb

Linnological Institute, Irkutsk, Russia: Research 10, 17 Jun

Linden, Eugene, author: *A Curious Kinship: Apes and Humans*. Photos by Michael Nichols. 2-45, Mar; *Bonobos, Chimpanzees With a Difference*. Photos by Frans Lanting. 46-53, Mar

Lindstedt, Stan L.: *Why Pronghorn Play So Long and So Fast*. Geographica. May

Lindstrom, Susan 123 Mar

"linear oases" 64, 83 Jan

Lions 55, 59, 80-81, 84, 85 Jan, 21, 21 May; *Captives in the Wild*. By Craig Packer. NGS research grant. 122-136, Apr; On Television. Jan

Liquor see Alcohol

Lisbon, Portugal: Columbus's residence 20-21, 25 Jan; Earthquake (1755) 20-21 Jan

Lishman, Bill: *Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun

Litchfield, Gordon 77 Apr

Lithops 62 Jan

Little, Cheryl 104 Jan

Litton, Randy 56 Jun

Liver: Metabolizing of alcohol 12, 15 Feb

Liver cirrhosis: Diagram of development by alcohol consumption 13 Feb; French mortality 11 Feb; Hungarian mortality 21 Feb; Italian mortality 27 Feb; Native American mortality 34 Feb

Liversedge, Tim. On Television. Apr

Livingston, Bill. On Television. Feb

Lizards: Angolosa lizard 58, 59 Jan; Gecko 81 Jan; Goannas 71, 85 Apr; Sand-diving lizard 78 Jan

Llama icons, Inca 116 Feb, 90 Mar

Llamas: Inca sacrifice 95 Mar

Llullaillaco, Volcan, Chile 91 Mar;

Ceremonial platform 86 Mar

Lobjanidze, Otari 106-107 May

Lockheed Electra (airplane): Cockpit 125-127 Feb; NCAR-equipped research facility 125-127, cutaway 120-131, interior pollution levels 128, personnel 131 Feb

Lockwood, Lillian and Norman 80 Apr

Logging: *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan; *British Columbia* map supplement. Apr; Gorilla habitat enhancement 38 Mar; Lake Baikal 10, 28 Jun

Lok, Grace 109 Apr

Lollis, Cesare de 34 Jan

Lomako forest, Zaire: Bonobo research 40, 53 Mar

Long Island, N. Y.: Canada geese 66-67, cover. Feb

Longview farm, Malvern, Pa. 60, 67, 69 May

Longwood Gardens, Kennett Square, Pa. 66-67 May

Loom, backstrap 118-119 Feb

Lopez, Digna 94 Jan

Los Angeles, Calif.: *Sunset Boulevard: Street to the Stars*. By Rick Gore.

Photos by Steve McCurry. 40-69, Jun

Los Angeles County Sheriff's Department: Bicycle patrol 58-59 Jun

Los Angeles Department of Water and Power: *California Puts a Charge Into Electric Carmakers*. Earth Almanac. Jan

Los Angeles Dodgers (professional baseball team) 49, 50 Jun

Los Angeles Police Department: Drug arrest 59 Jun

Los Angeles Youth Network 52 Jun

Louisiana-Pacific Corporation: *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb

Loutit, Blythe and Rudi: Rhinoceros research 75 Jan

Lovejoy, Ann 73, 77 May

Lowland gorillas: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar

Lowson, Elizabeth 89 Apr

"Lucy" (australopithecine) 27 Mar

Ludeña, Hugo 120-121 Feb

Lunar eclipse: Painting 40 May

Lund, Kate 130 Jun

Luque, Hernando de 102 Feb

Luque, José 8 Apr

Luther, Martin: Quote on excessive alcohol consumption 9, 11 Feb

Luzon (island), Philippines: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. Feb

Lyon, Eugene, author: *Search for Columbus*. Photos by Bob Sacha. 2-39, Jan

## M

MBARI see Monterey Bay Aquarium Research Institute

MacArthur, Arthur, Jr. 58, 60, 62, 74 Mar

MacArthur, Arthur, IV 66, 69, 81 Mar

MacArthur, Douglas: *Douglas MacArthur: An American Soldier*. By Geoffrey C. Ward. Photos by Cary Wolinsky. 54-83, Mar

MacArthur, Jean 66, 69, 81, 83 Mar

MacArthur, Mary "Pinky" 58, 59 Mar; Death 66 Mar; Dominance over son 60, 63, 66 Mar

MacArthur Foundation: "genius" award 66 May

MacArthur Memorial, Norfolk Va.:

Award 82, recipients 83 Mar

McConnell, Dominique 77 May

McCrory, Wayne: *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan

McCurry, Steve, photographer: *Sunset Boulevard: Street to the Stars*. By Rick Gore. 40-69, Jun

McDill, Eleanor and George 84 Apr

McFee, Joe 76 Feb

McGrew, William 27 Mar

Machida, Dennis 128 Mar

Machu Picchu, Peru: *Sacred Peaks of the Andes*. By Johan Reinhard.

NGS research grant. 84-111, Mar

McKenna, Amelia 49 Jun

McKinnon, Michael 134 Feb, On

Television. Feb

McLaughlin, Craig 80, 80 Feb

McLeod, N. Dak.: *To a Teacher, Home Is Where the Pupils Are*. Geographica. May

Macon, U.S.S.: U.S.S. Macon: *Lost and Found*. By J. Gordon Vaeth.

114-127, Jan

Madagascar: *Aye-aye, Sir: There's Food in These Timbers*. Geographica. Mar

Madeira Islands, Atlantic Ocean: Columbus's home 25 Jan; Portuguese settlement 24 Jan

Madrid, Spain 9, 18 Apr; Café 23 Apr;

Fashion show 20-21 Apr

Magway fields: Mexico 24 Feb

Mahoney, James 42, 44 Mar

Mahshi, Khalil 101-102 Jun

Maine: Black bears 80, den 81 Feb

Make-A-Wish Foundation: *Crusader for Earth Also Fights a Personal Battle*. Earth Almanac. May

The Making of Canada map series: *British Columbia* supplement. Apr

Makley, Elroyce, and family 56 Apr

Malaysia: Orangutans 41 Mar

Malinta Tunnel, Corregidor Island, Philippines: MacArthur's residence 69 Mar

Mallan, Erica: *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan

Mallorca (island), Balearic Islands, Spain 23, 28 Apr

Malnutrition: Alcohol-induced 19, 20 Feb

Mammoth Lode of Ivory From the Pleistocene. Earth Almanac. Jan

Manco Inca Yupanqui 112 Feb; Rebellion 116 Feb

Mandela, Nelson: 1990 U. S. tour 109 Jan

Manila, Philippines: American Legion meeting 67 Mar; Liberation from Japan (1944) 75 Mar

Manila Hotel, Manila, Philippines:

MacArthur's residence 58 Mar

Mann, Amandeep Kaur 119 Apr

Mann, Lynda 118 May

Manson, Joseph 35 Mar

Manure: *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. Mar

# Map supplements:

**British Columbia**, The Making of Canada series. *Apr*  
**Pacific Ocean**; **Indian Ocean**, World Ocean Floors series. *Jun*  
**Spain in the Americas**; *The Grand Exchange*. *Feb*  
**Maples**, Chris: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*  
**Maples**, Even in Spring, Leaves Fall—Some Forever. Earth Almanac. *Apr*  
**Maps**:  
 Africa: Ape ranges 12 *Mar*; Early voyages of Christopher Columbus 21 *Jan*; Skeleton Coast 67 *Jan*; see also Tanzania  
 The Americas: *Spain in the Americas*, supplement. *Feb*  
 Andes, South America: Sites sacred to Andean peoples 90, 107, 111 *Mar*  
 Arabian Peninsula: Smoke plume from Kuwait wellhead fires (1991) 131 *Feb*  
 Asia: Ape ranges 13 *Mar*; see also Arabian Peninsula; Baikal, Lake; Middle East  
 Atlantic Ocean: Early voyages of Christopher Columbus 21 *Jan*  
 Australia: Simpson Desert 74 *Apr*  
 Baikal, Lake, Russia 11 *Jun*  
 Bikini Lagoon: Atomic test sites 74-75 *Jun*  
 British Columbia, Canada: *British Columbia*, The Making of Canada series supplement. *Apr*; Vancouver 102 *Apr*  
 California: Route of last flight of the U.S.S. *Macon* 123 *Jan*; see also Los Angeles; Tahoe, Lake  
 Canada see British Columbia  
 Caribbean Sea and region: Second voyage of Columbus 45 *Jan*  
 Cuttyhunk Island, Mass. 121 *Jun*  
 Europe: Early voyages of Christopher Columbus 21 *Jan*  
 Florida: Miami 94 *Jan*; see also Okefenokee Swamp  
 Gaza Strip: Arab towns, Israeli settlements, and Palestinian refugee camps 95 *Jun*  
 Georgia see Okefenokee Swamp  
 Georgia, Republic of 89 *May*  
 Hawaiian Islands National Wildlife Refuge 130 *Jan*  
 Hispaniola: Exploration and colonization 45 *Jan*  
 Inca Empire: Expedition routes of Pizarro 95 *Feb*; Sacred sites 90, 107, 111 *Mar*  
 India: Forest cover, selected national parks and wildlife sanctuaries 11 *May*  
 Indian Ocean, World Ocean Floors series supplement. *Jun*  
 Jordan: Palestinian refugee camps 95 *Jun*  
 Los Angeles, Calif.: Sunset Boulevard 48-49 *Jun*  
 Machu Picchu (site), Peru: Orientation in sacred geography of region 111 *Mar*  
 Massachusetts see Cuttyhunk Island  
 Mediterranean region: Early voyages of Christopher Columbus 21 *Jan*  
 Miami, Fla. 94 *Jan*

Middle East: Israeli-occupied territory 95 *Jun*; Palestine 94 *Jun*; see also Arabian Peninsula  
 Namibia: Skeleton Coast 67 *Jan*  
 Nevada see Tahoe, Lake  
 Ngorongoro Crater, Tanzania 124 *Apr*  
 Okefenokee Swamp, Fla.-Ga. 43 *Apr*  
 Pacific Ocean: Bikini Lagoon 74-75 *Jun*; Pacific Ocean, World Ocean Floors series supplement. *Jun*  
 Palestine 94 *Jun*  
 Peru: Inca sites near Machu Picchu 111 *Mar*  
 Russia: Lake Baikal 11 *Jun*  
 Simpson Desert, Australia 74 *Apr*  
 Skeleton Coast, Namibia 67 *Jan*  
 South America: Expedition routes of Pizarro 95 *Feb*; see also Andes  
 Spain 12-13 *Apr*  
 Tahoe, Lake, Calif.-Nev. 117 *Mar*  
 Tanzania: Ngorongoro Crater 124 *Apr*  
 Titicaca, Lake, Peru-Bolivia 107 *Mar*  
 United States, eastern: Wildlife ranges 72, 76, 80, 84, 89 *Feb*  
 Vancouver, British Columbia, Canada 102 *Apr*; Land use. *British Columbia* supplement. *Apr*  
 West Bank: Arab towns, Israeli settlements, and Palestinian refugee camps 95 *Jun*  
 Western Hemisphere: Path of totality, 1991 solar eclipse 38 *May*  
**Maps for the Blind Have a Different Feel**. Geographica. *Jun*  
 Maragall, Pasqual 14 *Apr*  
 Marbella, Spain 8 *Apr*  
 Marchena, Antonio de 30, 34 *Jan*  
 Marcum, Cathrine Sneed 60, 64 *May*  
 Mariel boatlift refugees (1980) 100, 113 *Jan*  
 Marine biology: *A Bloom of Algae as Big as Britain*. Geographica. *Apr*; *Deep Research Reveals Cod "Highways."* Geographica. *Jun*; *Deep-Sea Vents: Worlds Without Sun*. By Michael Kenna. *Pacific Ocean* map supplement. *Jun*; *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. *May*  
 Marine Mammal Commission: Monk seal project 141 *Jan*  
 Marine mammals see Baikal seals; Monk seals; Northern elephant seals; Whales  
 Marla, South Australia, Australia: Horse racing 92, 93 *Apr*  
 Marlboro man billboard, Los Angeles, Calif. 51 *Jun*  
 Marler, Peter 33 *Mar*  
 Marshall, George: Interactions with Douglas MacArthur 63, 70, 74 *Mar*  
 Martignetti, Paul 52 *Jun*  
 Martin, Carlos 13 *Apr*  
 Martin, Chrissy and Esmond Bradley: *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. *Mar*  
 Martin, Dorene Lauer 60 *Jun*  
 Martinez, Ayandys 98-99 *Jan*  
 Martinez Resino, Luis 19 *Apr*  
 Maryland: Canada geese population decline 84 *Feb*; *An Open-air Textbook: Lessons in Stone*. Geographica. *Jun*  
 Masri, Taher 98 *Jun*

Massachusetts: *Cuttyhunk Seasons*. By Judith Brown. Photos by Dick Swanson. 114-132, *Jun*  
 Mastic shrubs 20, 20 *Jan*  
 Matar, Deeb 88, 92 *Jun*  
 Mathewes, Rolf: *Science Supports Ancient Legends*. Geographica. *Mar*  
 Matlib, Abdul, and family 123 *May*  
 Matthews, Richard. On Television. *Apr*  
 Mauna Kea Observatory, Hawaii: *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, *May*  
 Mayewski, Paul: *Tales of Climate Change Held Deep in the Ice*. Geographica. *Jun*  
 Mayflower bean 66 *May*  
 Medicine and health: AIDS research 29, 30, 30-31, 42, 44-45 *Mar*; *Alcohol, the Legal Drug*. By Boyd Gibbons. Photos by George Steinmetz. 2-35, *Feb*; *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. *Jun*; *Bolt From the Blue More Likely to Hit Men*. Geographica. *Apr*; *Bone of the Sea, Coral Mends the Human Frame*. Earth Almanac. *Mar*; *Can Seal Pup Biology Help Save Infant Lives?* Geographica. *Apr*; *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. Photos by Peter Menzel. 112-124, *May*; *Fetal Alcohol Syndrome: The Preventable Tragedy*. By George Steinmetz. 36-39, *Feb*; Native American skills. *Spain in the Americas* map supplement. *Feb*  
 Medicine vial, Spanish 48 *Jan*  
 Mediterranean monk seals: Populations 130, 137, 140 *Jan*  
 Mediterranean Sea: Ecological threats 28 *Apr*; Map 21 *Jan*  
 Meet the Cuttlefish—Master of Camouflage. Earth Almanac. *May*  
 Melaidze, Vano 108 *May*  
 "The Men On The Flying Trapeze" (insignia) 115 *Jan*  
 Menge, Bob 113 *Jan*  
 Mennella, Julie: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. *May*  
 Mental retardation: Alcohol-induced 19, 37, 38 *Feb*  
 Menzel, Peter, photographer: *DNA Profiling: The New Science of Identity*. By Cassandra Franklin-Barbajosa. 112-124, *May*  
 Mercury (element): *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. *Jun*; La Isabela excavations 44, 45 *Jan*  
 Merlot (wine): Aging process 19 *Feb*  
 Mesopotamians: Wine use 23 *Feb*  
 Messenger, John: *Meet the Cuttlefish—Master of Camouflage*. Earth Almanac. *May*  
 Metarhizium anisopliae: *Biopesticides Take Aim With Natural Allies*. Earth Almanac. *Feb*  
 Methanol 7 *Feb*  
 "The Mexicans: Through Their Eyes" (NGS television special): *A Blending of Cultures Creates a Vibrant People*. On Television. *Feb*; Cover announcement. *Feb*

Mexico: *Clothing Styles Adapt as Two Cultures Meet*. Geographica. Jan  
 Mexico, Gulf of: Florida coastline 62-63 Apr; Mullet fishing 60-61 Apr  
 Mexico City, Mexico: Fulque market 25 Feb; Solar eclipse (1991) 36 May  
 Mezquita (church), Córdoba, Spain 28-29 Jan  
 Miami, Fla.: *Miami*. By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, Jan  
 Miami Beach, Fla. 99 Jan; Revitalization 86-87, 111, 113 Jan  
 Miami International Airport: Drug interdiction 95, 103 Jan  
 Miami River, Fla. 112-113 Jan; Drawbridge 93 Jan  
 Mickens, Bobbie 100 Jan  
 Middle East: *Persian Gulf Pollution: Assessing the Damage One Year Later*. By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, Feb; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun; see also Turkey  
 Middle Tennessee Reception Center, Nashville, Tenn.: Inmate gardening 58, 60, 65 May  
 Migration, animal: *Deep Research Reveals Cod "Highways."* Geographica. Jun; *Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun  
 Migration, human: DNA research 121 May  
 Migunova, Elena. President's Page. Jun  
 Milk: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. May  
 Miller, Gary 69 Feb  
 Miller, Harold B. "Min" 126-127, 127 Jan; Portrait 127 Jan  
 Miller, Steven 81 Apr  
 A Million Ways to Boost Geography Education. By Gilbert M. Grosvenor. President's Page. Mar  
 Milman, Genrietta 53 Feb  
 Minchin, Semyon 46 Feb  
 Mines: *Sprouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan; see also Potosí  
 Mississippi: Geography education fund. President's Page. Mar  
 Missouri, U.S.S.: Japanese surrender aboard (1945) 73, 76 Mar  
 Mr. and Miss St. George pageant: Contestant 52 Apr  
 Mitani, John 10, 30 Mar  
 Mitra Setia, Tatang 42 Mar  
 Mkhedrioni (Georgian paramilitary group) 99 May  
 Mobley, George F., photographer: *Lake Tahoe—Playing for High Stakes*. By Ernest B. Furgurson. 113-132, Mar  
 Moccasin Swamp, Fla.: Shack 40-41 Apr  
 Moffett Field (air base), Calif. 118, 123 Jan  
 Molina, Cristóbal de 92 Feb  
 Monal chicks 23 May  
 Monasteries, Buddhist: Destruction by Red Army (1934) 28-29 Jun; Novitiates 28-29 Jun  
 Monell Chemical Senses Center: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. May

Mongandu people: Bonobo myth 52-53 Mar  
 Mongolia: *Wild Asian Horse to Return Home*. Geographica. Mar  
 Monk seals: *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, Jan  
 Monkeys: Howler monkeys 24 Mar; Red colobus monkeys 23, 26 Mar; Spider monkeys 24 Mar  
 Monogamy, human 36 Mar  
 Monterey Bay Aquarium Research Institute (MBARI): Search for U.S.S. *Macon* 117, 118, 123 Jan  
 Monticello, Charlottesville, Va.: Garden 80-81 May  
 Moon: *An Epic Eclipse for Southern California*. Earth Almanac. May; *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, May; *International Space Year: Moon Flights Revisited*. On Television. May  
 The Moon's Racing Shadow. By Roger H. Ressmeyer. NGS research grant. 38-51, May  
 Moonshining: Okefenokee swampers 49 Apr  
 Moor-Jankowski, Jan 44-45 Mar  
 Moore, Eleanor 131-132, 132 Jun  
 Moore, Richard: *In the Azores, a Volcano Makes the Cooking Easy*. Geographica. Jun  
 Mormons: Genetic studies 114 May  
 Mormyrids: *Nosy Detective to Monitor River Tham's Pollution*. Earth Almanac. Jan  
 Mortality: *Bolt From the Blue More Likely to Hit Men*. Geographica. Apr  
 Moscoso, Roddy: *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. Apr  
 Moscow, Russia: Alcoholism treatment programs 8-9, 29-30 Feb; Jewish visa applicants 42-43, 46 Feb; Train station 45 Feb  
 Moscow School 1173, Moscow, Russia. President's Page. Jun  
 Moses (prophet): Prohibition against excessive alcohol consumption 7 Feb  
 Mosques: Gaza Strip 101 Jun; Ranthambore National Park, ruins 17 May  
 Moss, Jerry 53 Jun  
 Moss Landing, Calif.: Airship girder fragment 118, discovery 117 Jan; Research facility 117 Jan  
 Mountain climbing: *Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr  
 Mountain goats: *Alien to Olympic Park, Mountain Goats May Go*. Earth Almanac. Jun  
 Mountain gorillas: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar  
 Mountain worship, Andean: *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar  
 Möwe Bay, Namibia: Wildlife research camp 65-66, 74, 75 Jan  
 Mudpeople: Roadside contemplation 61 Jun

Muhammad XI, Sultan (Granada): Surrender 36 Jan  
 Muhammad, Daud 96-97 Jun  
 Muir, John: Writings on Lake Tahoe 115 Mar  
 Mukden, Manchuria: Massacre (1905) 28 Feb  
 Mullet fishing 60-61 Apr  
 Mummies: DNA research 112, 120, 121 May; *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar  
 Mungerannie Station, South Australia, Australia 92 Apr  
 Munich, Germany: Oktoberfest 10, 11 Feb  
 Murals: Los Angeles 46-47 Jun; Philadelphia 56-57 May  
 Muscatine, Iowa: School. President's Page. Jun  
 Musicians Institute, Hollywood, Los Angeles, Calif. 50 Jun  
 Musk deer 13 May; Poaching 13 May  
 Muslim Quarter, Old City, Jerusalem: Border police patrol 102-103 Jun  
 Musqueam Indians 100, 102 Apr; Reserve 100 Apr  
 Mustard plants 79 May

## N

NBC (National Broadcasting Corporation): Production costs, *Cheers* 59 Jun  
 NCAR see National Center for Atmospheric Research  
 NIH see National Institutes of Health  
 Nachman, Ron 64 Feb  
 Nachtwey, James, photographer: *The Great Soviet Exodus*. By Tad Szulc. 40-65, Feb  
 Nagarhole National Park, Karnataka, India 10-11, 13 May; Gaur skulls 10 May  
 Nagase, Heitaro 77 Mar  
 Nagato (battleship) 78 Jun; Atomic test target 72, 74, 75, 79 Jun; Pearl Harbor attack 78-79 Jun; Wreckage 78-79 Jun  
 Nahuatl Indians: *Clothing Styles Adapt as Two Cultures Meet*. Geographica. Jan  
 Namib Desert, Angola-Namibia-South Africa: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, Jan; *Baboon Troop Adapts to Survive in the Desert*. Geographica. Feb; *Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. May  
 Namibia: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, Jan; *Apelike Jaw—Clue to Human Origins?* Geographica. Mar  
 Naras plant: Fruit 63, 63 Jan  
 Narvaez, Don José María 100 Apr  
 Nasir, Ahmad Abu 95 Jun  
 Nasir, Sari 96 Jun  
 Nasturtiums 59 May  
 Natadze, Nodar 88 May  
 National Center for Atmospheric Research: *Persian Gulf Pollution: Assessing the Damage One Year Later*. By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, Feb  
 National Gardening Association 55 May



NATIONAL GEOGRAPHIC: *Using Recycled Paper, NGS Cover Goes Green.* Earth Almanac. Jun

National Geographic Kids Network: *Kids Network Sends Data to Russia, With Love.* By Gilbert M. Grosvenor. President's Page. Jun

National Geographic Society (NGS): Geography education programs see National Geographic Society Education Foundation

Grants:

Andean archaeology 87 Mar

Ape research 10 Mar

Baikal, Lake, expedition 17, 38 Jun

Chinese fossil expedition: *Chinese Desert Fossils Locate an Ancient Sea.* Geographica. May

Clothing worn in Puebla, Mexico: *Clothing Styles Adapt as Two Cultures Meet.* Geographica. Jan

La Isabela, Dominican Republic, excavations 10 Jan

Ngorongoro Crater lion study 125 Apr

Nile Delta: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb

*Otavipterus namibiensis* discovery: *Apelike Jaw—Clue to Human Origins?* Geographica. Mar

Persian Gulf pollution 128 Feb

Rhinoceros research 75 Jan

Solar eclipse (1991) 37 May

Treeshrub study: *Small Animals Help Plant a Big Flower.* Geographica. Apr

Television see Television films, NGS

National Geographic Society Education Foundation: *Kids Network Sends Data to Russia, With Love.* By Gilbert M. Grosvenor. President's Page. Jun; *A Million Ways to Boost Geography Education.* By Gilbert M. Grosvenor. President's Page. Mar

National Geographic Video Club: "Cats: Caressing the Tiger." On Television. Mar

"For All Mankind." On Television. May

National Institutes of Health (NIH): Research laboratory funding 33 Mar

National Marine Fisheries Service: *Last Refuge of the Monk Seal.* By Diane Ackerman. Photos by Bill Curtisinger. 128-144, Jan

National Museum of Naval Aviation Foundation, Pensacola, Fla. 117, 118 Jan

National Park Service, U. S.: *Alien to Olympic Park, Mountain Goats May Go.* Earth Almanac. Jun; Bikini Lagoon evaluation 76, 77, 83 Jun; *Park Service to Mark the Road to Freedom.* Geographica. Apr; *The Presidio Awaits a Changing of the Guard.* Geographica. Mar

National parks: *Africa's Skeleton Coast.* By Des and Jen Bartlett. 54-85, Jan; *India's Wildlife Dilemma.* By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May

National Prohibition Party 11 Feb

National Science Foundation: *Tales of Climate Change Held Deep in the Ice.* Geographica. Jun

National Weather Service: *Bolt From the Blue More Likely to Hit Men.* Geographica. Apr

Nature Conservancy: Florida panther reintroduction plans 57 Apr

Navigation: Nautical 16, 26-27 Jan; *Smart Cars Map Route to the 21st Century.* Geographica. Feb

Nazlat as Samman, Egypt: *Uncovering the Lives of the Pyramid Builders.* Geographica. May

Needle exchange program: Vancouver, B. C. 117 Apr

Nepal: *Steep Price Hike Aids Mount Everest Cleanup.* Earth Almanac. Apr

*nerpa* see Baikal seals

Nets see Drift nets

Neurofibromatosis: DNA research 112 May

Nevada: *Lake Tahoe—Playing for High Stakes.* By Ernest B. Furgurson. Photos by George F. Mobley. 113-132, Mar

Nevada (battleship): Atomic test target 72 Jun

Nevado Coropuna 103 Mar

New Britain (island), Bismarck Archipelago: Tunnel network 69 Mar

New Guinea: Abandoned B-17 68-69 Mar; Defense force, World War II 70, 71 Mar

New Haven, Conn.: Canada geese 82-83 Feb

New Hebrides (islands), Pacific Ocean see Vanuatu

The New World see The Americas

*The New World of Spain.* By Bill Bryson. Photos by David Alan Harvey. 3-33, Apr

New York, N. Y.: Urban gardens 69-72 May

New York Botanical Garden 70-71 May; Urban garden project 69-70 May

Newfoundland, Canada: *Deep Research Reveals Cod "Highways."* Geographica. Jun

Ngorongoro Crater, Tanzania: *Capitatives in the Wild.* By Craig Packer. NGS research grant. 122-136, Apr; On Television. Apr

Nichols, Michael, photographer: *A Curious Kinship: Apes and Humans.* By Eugene Linden. 2-45, Mar; On Assignment. Mar

Nickel-cadmium batteries: *California Puts a Charge Into Electric Carmakers.* Earth Almanac. Jan

Nicolas, Demos 116 Apr

Nicotera, Santo. President's Page. Mar

*Nightmare in the Gulf Takes Its Toll.* On Television. Feb

Nigris, Antonio Beorchia 99 Mar

Niihau (island), Hawaii: Monk seals 144 Jan

Nile Delta, Egypt: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb

Nishida, Toshisada 13, 35 Mar

Nissan: *California Puts a Charge Into Electric Carmakers.* Earth Almanac. Jan

*No Quarter: Australia Targets Alien Animals.* Earth Almanac. Feb

NOAA-9 satellite: Near-infrared image 127 Feb

Noise pollution: *Skies to Become Quieter, Cleaner—and Costlier.* Earth Almanac. Jun

North Atlantic right whales: DNA studies 124, 124 May

North Carolina see Great Smoky Mountains National Park

North Carolina State University Arboretum, Raleigh, N. C. 73 May

North Dakota: *To a Teacher, Home Is Where the Pupils Are.* Geographica. May

North Philadelphia, Pa.: Community gardens 69 May

North River, Ga.: Paper mill 50-51 Apr

Northcliffe, Western Australia, Australia: *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr

Northern elephant seals: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr

Northern Territory, Australia: *The Simpson Outback.* By Jane Vessels. Photos by Medford Taylor. 64-93, Apr

*Nosy Detective to Monitor River Thames Pollution.* Earth Almanac. Jan

Nova Scotia (province), Canada: *Volunteer Countdown to Cleaner Beaches.* Geographica. Mar

Noya, Spain: Clam harvesters 26-27 Apr

Nuclear weapons testing: *Bikini's Nuclear Graveyard.* By John L. Eliot. Photos by Bill Curtisinger. 64-93, Jun

Nunes, Jim 120 Jun

Núñez, Luis 22 Apr

Nunn, Olivia 83 Apr

Nunn, Pam 73, 83 Apr

Nunn, Richard 75, 77, 92 Apr

Nunn, Stuart 70, 73, 75, 86-88 Apr

Nur, Amos: *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. Jan

O

O'Brien, Stephen J. 127, 130 Apr; author: *Genetic Erosion: A Global Dilemma.* 136, Apr

Obruchev, Vladimir 16-17 Jun

Observantines: Influence on Columbus 30 Jan

Occupied territories see West Bank

Ocean floors: *Pacific Ocean; Indian Ocean.* World Ocean Floors map series supplement. Jun

Oehme, Wolfgang 73 May

Oil exploration: *Bear of an Issue Surfaces Over Arctic Drilling.* Earth Almanac. Mar

Oil spills: *Nightmare in the Gulf Takes Its Toll.* On Television. Feb; *Persian Gulf Pollution: Assessing the Damage One Year Later.* By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, Feb

Oilfield: Lake Baikal 23, 38 Jun

Oimbari, Raphael 70, 71 Mar

Oise-Aisne (cemetery), France 63 Mar

Ojeda, Alonso de 99 Feb

Okeechobee, Lake, Fla.: Dairy farm runoff 63 *Apr*  
 Okefenokee National Wildlife Refuge, Fla.-Ga.: Alligator 86 *Feb*; Encroachment on private lands 45, 55 *Apr*; Endangered species 48 *Apr*; Peat islands 44, 45, 48 *Apr*  
 Okefenokee Swamp, Fla.-Ga.: *Blackwater Country*. By Richard Conniff. Photos by Melissa Farlow. 34-63, *Apr*  
 Okefenokee swamps: Extended family kinships 42, 53 *Apr*; Livelihoods 49 *Apr*  
 Oktoberfest: Barmaid 11 *Feb*; Beer consumption 11 *Feb*; Tent 10 *Feb*  
 Old Andado homestead, Northern Territory, Australia 67, 82, 84 *Apr*  
 "Old Folks at Home" (Foster) 56 *Apr*  
 Old Milwaukee beer: Television commercial filming 32 *Feb*  
 Oldfield, Kevin and Mary 92 *Apr*  
 Olkhon Island, Lake Baikal, Russia 5-7, 28, 30-31 *Jun*; Shamans 7, 28 *Jun*  
 Olmert, Ehud 46 *Feb*  
 Olympic Games, 1992 Summer 13, 14 *Apr*  
 Olympic National Park, Wash.: *Alien to Olympic Park, Mountain Goats May Go*. Earth Almanac. *Jun*  
 O'Malley, Peter 49-50 *Jun*  
 O'Malley, Walter 49 *Jun*  
 Omalo, Republic of Georgia: Farm 108 *May*  
 Omar Khayyám: Poem, on refuge found in wine 9 *Feb*  
 omul 12-13, 14, 20 *Jun*  
 On Assignment:  
 Bartlett, Des and Jen, Namibia. *Jan*  
 Belt, Don, Lake Baikal. *Jun*  
 Earle, Sylvia A., Persian Gulf. *Feb*  
 Farlow, Melissa, Okefenokee Swamp. *Apr*  
 Gehman, Raymond, Eastern U. S. forests. *Feb*  
 Harvey, David Alan, Spain. *Apr*  
 Nichols, Michael "Nick," Zaire. *Mar*  
 Pinneo, Joanna, with Palestinians. *Jun*  
 Reinhard, Johan "Joe," Andes. *Mar*  
 Ressimeyer, Roger, Mauna Kea, Hawaii. *May*  
 Roxburgh, Angus, Republic of Georgia. *May*  
 Tomaszewski, Tomasz, Republic of Georgia. *May*  
 One-horned rhinoceroses 24-25, 27 *Mar*; Diet 25 *May*; Poaching 27 *May*  
 O'Neill, Brian: *The Presidio Awaits a Changing of the Guard*. Geographica. *Mar*  
 Ontario (province), Canada: *Sprouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. *Jan*  
 Oodnadatta, South Australia, Australia 70, 77, 80, 82 *Apr*  
 Oodnadatta Track, Simpson Desert, Australia 70, 77, 89 *Apr*; Map locating 74 *Apr*  
 An Open-air Textbook: *Lessons in Stone*. Geographica. *Jun*  
 Operation Crossroads: *Bikini's Nuclear Graveyard*. By John L. Eliot. Photos by Bill Curtisinger. 70-83, *Jun*

Operation Magic Carpet (1945): Troops aboard *Saraoga* 76 *Jun*  
 Orangutan Foundation International 41 *Mar*  
 Orangutans: *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, *Mar*; *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. *Mar*  
 Oreiz, Maria 70 *May*  
 Organ transplants: Chimpanzee donors 44-45 *Mar*  
 Organic gardening 63, 66, 70, 70-71, 77 *May*  
 Orientals: Alcohol intolerance 27 *Feb*  
 Osprey Cove, St. Marys, Ga. 54 *Apr*  
 Ossetia (region) Republic of Georgia-Russia 92-93, 95, 96 *May*; Family 92-93 *May*  
 Ostriches: Male, chicks, and eggs 78-79 *Jan*  
*Otiavipithecus namibiensis*: *Apelike Jaw—Clue to Human Origins?* Geographica. *Mar*  
 Otsuka, S. 77 *Mar*  
 Our Lady Queen of the Angels church, Los Angeles, Calif.: Baptism 44-45 *Jun*  
 Outback, Australian see Simpson Desert  
 Overtown (neighborhood), Miami, Fla.: Decline in affluence 105, 109 *Jan*  
 Owen-Smith, Garth: Eco-tourism project 85 *Jan*; Lion encounter 80 *Jan*  
 Owen Stanley Range, Papua New Guinea 68-69 *Mar*  
 Owis, Pel's fishing. On Television. *Apr*  
 Oyster farming: Cuttyhunk Island, Mass. 123 *Jun*  
 Oyster shell icons, Inca 90 *Mar*  
 Oystering: Okefenokee region 58, 61 *Apr*  
 Oz, Amos 46 *Feb*

## P

PLO see Palestine Liberation Organization  
 PT 41 (boat) 64 *Mar*; Commander 64 *Mar*  
 Pääbo, Svante 120 *May*  
 Pacific islands: *Bikini's Nuclear Graveyard*. By John L. Eliot. Photos by Bill Curtisinger. 70-83, *Jun*; *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtisinger. 128-144, *Jan*; *Photographic Debut for a Pacific Starling*. Geographica. *Jun*; see also Philippines  
 Pacific Ocean: *Pacific Ocean; Indian Ocean*, World Ocean Floors map series supplement. *Jun*; *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. *Apr*  
 Pacific Palisades, Los Angeles, Calif.: Secession debate 67-68 *Jun*  
 Packard, David 117 *Jan*  
 Packer, Craig, author-photographer: *Captives in the Wild*. NGS research grant. 122-136, *Apr*  
 Palanan wilderness, Philippines: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. *Feb*  
 Paleo-Indians: DNA research 120, 121 *May*  
 Paleontology: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*; see also Fossils  
 Paleotethys Sea (ancient sea): *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*  
 Palestine: British mandate (1922-1948) 92 *Jun*  
 Palestine Liberation Organization (PLO): Policy shift 111 *Jun*  
 Palestinians 45, 62, 64 *Feb*; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, *Jun*  
 Palm oil: Preparation 22-23 *Jan*  
 Palma de Mallorca, Mallorca, Balearic Islands 23, 28 *Apr*  
 Palmer, Bill 69, 73 *Feb*  
 Palmetto Hall Plantation, Hilton Head Island, S. C.: *From Civil War Camp to Resort Community*. Geographica. *Jun*  
 Pancreatitis: Alcohol-induced 19 *Feb*  
 Panda trees 22, 24, 26 *Mar*  
 Pangaea (supercontinent): *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. *May*; *Indian Ocean map supplement. Jun*  
 Panthers, Florida 51 *Apr*; Breeding program 43, 51, 57 *Apr*; Population estimate 136 *Apr*  
 Panwar, H. S. 18, 20 *May*  
 Paper industry: Planted forests 42 *Apr*; Sludge dumping 43, 50, 56-57 *Apr*; *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. *Feb*  
 Paper recycling: *Using Recycled Paper, NGS Cover Goes Green*. Earth Almanac. *Jun*  
 Papua New Guinea: Allied war effort, World War II 70, 71 *Mar*  
 Paramananda, Brother 68 *Jun*  
 Paramount Pictures 56, 58 *Jun*; Evolution of *Cheers* 58-59 *Jun*  
 Parasitic plants see *Rafflesia*  
 Parc National des Volcans, Rwanda: Mountain gorillas 42 *Mar*  
 Pareja, Eduardo 101, 107 *Mar*  
 Pareja-Obregón, Martín 20-21, 24 *Apr*  
 Parentage: Identification through DNA analysis 122-123 *May*; Lion DNA-fingerprinting studies 130 *Apr*  
 Paris, France: Wine stewardship instruction 20 *Feb*  
 Park Service to Mark the Road to Freedom. Geographica. *Apr*  
 Parks see National Park Service, U. S.; National Parks  
 Parks, Arva Moore 94, 97 *Jan*  
 Parliament building, Tbilisi, Republic of Georgia: Courtyard bonfire 97 *May*; Fire 100 *May*  
 Pasachoff, Jay M., author: *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressimeyer. Photos by Roger H. Ressimeyer. NGS research grant. 30-51, *May*  
 Passarella, Sam John 58 *May*  
 Pastor, Xavier 28 *Apr*  
 Paternity: Identification through DNA analysis 122-123 *May*; Lion DNA-fingerprinting studies 130 *Apr*

- Paterson, John 81 Jan  
 Patriarchs, Tomb of, Hebron, West Bank 93 Jun  
 Patterson, Francine "Penny" 30, 33 Mar  
 Peace in Stages Council 108 Jun  
 Peacock 109 May  
 Pearl Harbor, Oahu, Hawaii: Japanese attack (Dec. 7, 1941) 78-79 Jun  
 Peat bogs: Okefenokee Swamp 44, 45, 45, 48 Apr; see also Bog bodies; The Fens  
 Pectoral disk, Tiahuanacan gold 101, 108 Mar  
 Pel's fishing owls. On Television. Apr  
 Pennsylvania: White-tailed deer 72-73, 72, 73 Feb  
 Pennsylvania Horticultural Society: Urban garden program 69 May  
 Peppers, Grandpa's home 72 May  
 Peralta, Estella Maria, and granddaughters 44 Jan  
 Perentis 85, 88 Apr  
 Perestrello, Felipa Moniz 24 Jan; Death 27 Jan  
 Pérez, Lisandro 100 Jan  
 Pérignon, Pierre (Dom): Exclamation upon the invention of champagne 28 Feb  
 Periyar Tiger Reserve, Kerala, India 20 May  
 Perlman, Ed 55, 58 May  
 Perrochet, Julie 125 Mar  
 Persian Gulf: *Nightmare in the Gulf Takes Its Toll*. On Television. Feb; *Persian Gulf Pollution: Assessing the Damage One Year Later*. By Sylvia A. Earle. Photos by Sisse Brimberg. NGS research grant. 122-134, Feb  
 Peru: *Pizarro, Conqueror of the Inca*. By John Hemming. Photos by Stuart Franklin. 90-121, Feb; *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar  
 Peruvian Blue potato 55 May  
 Peschanaya Bay, Lake Baikal, Russia 26 Jun  
 Peseta: Rise in value 23 Apr  
 Pesticides: American gardens 77 May; *Biopesticides Take Aim With Natural Allies*. Earth Almanac. Feb  
 Peter the Great, Tsar (Russia): Reward to loyalist 28 Feb  
 Petersen, Svend 65 Jun  
 Petroglyphs: Australia 75 Apr; Namib Desert 69 Jan  
 Pheasants: Himalayan monal chicks 23 May  
 Phil Hardin Foundation. President's Page. Mar  
 Philadelphia, Pa.: Community gardens 56-57, 69, 76, 77 May; Deer 72 Feb; Flower show 67 May  
 Philadelphia Green program 57, 69, 77 May; Gardens 56-57, 76 May  
 Philippine eagles: *Rare Eagle Sighted—Still Aloft, but for How Long?* Earth Almanac. Feb  
 Philippines: *Douglas MacArthur: An American Soldier*. By Geoffrey C. Ward. Photos by Cary Wolinsky. 54-83, Mar  
 Phillippe, Jean, Jr. 94 Jan  
 Philpott, Jeff 60 May  
 Photographic Debut for a Pacific Starling. Geographica. Jun  
 Phuyupatamarca, Peru 109 Mar  
 Phytoplankton: *A Bloom of Algae as Big as Britain*. Geographica. Apr  
 Pichu Pichu, Peru 101 Mar; Human sacrificial remains 95, 101 Mar  
 Pigg, Louisa 113 Jan  
 Pigs 106 May; *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb; *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. Mar  
 Pilotfish (submarine): Atomic test target 74, 75 Jun; Wreckage 70-71 Jun  
 Pinatubo, Mount, Philippines: Eruption haze (1991) 37, 48, 48 May  
 Pinhook Swamp, Fla.: Conservation efforts 57 Apr  
 Pinneo, Joanna B., photographer: *Who Are the Palestinians?* By Tad Szulc. 84-113, Jun; On Assignment. Jun  
 Pinnipeds see Baikal seals; Monk seals; Northern elephant seals  
 Pisa, Bernal de: La Isabela revolt 48 Jan  
 Pitcher plants 73 May  
 Pitchfork, Colin 118, 119 May  
 Pittman-Robertson Act (1937) 69 Feb  
 Pisa II, Pope 33 Jan  
 Pizarro, Francisco: *Pizarro, Conqueror of the Inca*. By John Hemming. Photos by Stuart Franklin. 90-121, Feb; *Spain in the Americas* map supplement. Feb  
 Pizarro, Hernando 94, 112 Feb; Imprisonment 118 Feb  
 Pizarro, Pedro 104, 111 Feb  
 Plains Indians: *Where Buffalo Roamed—and Died*. Geographica. Feb  
 Planets see Earth; Saturn  
 Planispheres 35 Jan; "Cantino" planisphere. *Spain in the Americas* map supplement. Feb  
 Plankton: *A Bloom of Algae as Big as Britain*. Geographica. Apr  
 Plants: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; *The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. 52-81, May; *Spouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan; *Yucca: A Breath of Fresh Air Down on the Farm*. Earth Almanac. Mar; see also Algae; *Rafflesia*  
 Plastic surgery see Reconstructive surgery  
 Plate, Adam and Linnie 80 Apr  
 Plate tectonics: *Changing the Face of Earth*. By Carolyn H. Anderson. *Indian Ocean* map supplement. Jun; *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. Jan; *An Open-air Textbook: Lessons in Stone*. Geographica. Jun  
 Playboy Mansion, Holmby Hills, Los Angeles, Calif. 65-66 Jun  
 Plaza Mayor, Madrid, Spain: Courtyard café 23 Apr  
 Plebes: West Point 60-61 Mar  
 Pleistocene epoch: *Mammoth Lode of Ivory From the Pleistocene*. Earth Almanac. Jan  
 Plenty Highway, Simpson Desert, Australia 70, 84 Apr; Map locating 74 Apr  
 Plymouth Marine Laboratory, England: *A Bloom of Algae as Big as Britain*. Geographica. Apr  
 Poaching: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr; *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar; India 2, 11, 13, 16, 27 May; Namibia 64, 67, 71-73, 75, 85 Jan  
 Pocono Mountains, Pa.: Black bears 66 Feb; White-tailed deer 73 Feb  
 Point Grey, Vancouver, British Columbia 100 Apr  
 Point Lobos (research vessel) 117 Jan; Videotaping of airship's debris fields 118 Jan  
 Pointe Noire, Congo: Chimpanzee reserve 25, 42, inaugural celebration 25 Mar  
 Pokrovskoye, Russia: Schoolchildren 18-19 Jun  
 Polar bears: *Bear of an Issue Surfaces Over Arctic Drilling*. Earth Almanac. Mar  
 Pollution see Air pollution; Noise pollution; Water pollution  
 Polygyny, human 36 Mar  
 Pompilid wasps: *Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. May  
 Ponce de León, Juan. *Spain in the Americas* map supplement. Feb  
 Poodle, dyed pink 55 Jun  
 Population: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May  
 Porath, Jonathan D. 55 Feb  
 Port of Vancouver, Vancouver, British Columbia 94-96, 100, 103, 120 Apr; Cargo ship grain tank 120-121 Apr  
 Porta Soprana (city gates), Genoa, Italy 8-9 Jan  
 Portland, Oreg.: Garden program 80 May  
 Portugal: Ocean exploration, 15th century 21, 24 Jan; *Spain in the Americas* map supplement. Feb  
 Potatoes: Peruvian Blue potato 55 May; *Spain in the Americas* map supplement. Feb; Sunset variety 54 May  
 Potosí, Cerro, Bolivia 116, 118 Feb; Miner 117 Feb; *Spain in the Americas* map supplement. Feb  
 Power to the Prairie on an Iowa Refuge. Earth Almanac. Mar  
 Prairies: *Power to the Prairie on an Iowa Refuge*. Earth Almanac. Mar  
 Pregnancy: Dangers of alcohol consumption 19 Feb; *Fetal Alcohol Syndrome: The Preventable Tragedy*. By George Steinmetz. 36-39, Feb  
 The President's Report on the Education Foundation: *Kids Network Sends Data to Russia, With Love*. By Gilbert M. Grosvenor. President's Page. Jun; *A Million Ways to Boost Geography Education*. By Gilbert M. Grosvenor. President's Page. Mar  
 The Presidio Awaits a Changing of the Guard. Geographica. Mar  
 The Preventable Tragedy: *Fetal Alcohol Syndrome*. By George Steinmetz. 36-39, Feb  
 Pride versus Clan in Botswana. On Television. Jan  
 Priebe, Eckehart 116 Apr

Primates: *Aye-aye, Sir: There's Food in These Timbers*. Geographica. Mar; *Baboon Troop Adapts to Survive in the Desert*. Geographica. Feb; *Bonobos, Chimpanzees With a Difference*. By Eugene Linden. Photos by Frans Lanting. 46-53, Mar; *A Curious Kinship: Apes and Humans*. By Eugene Linden. Photos by Michael Nichols. 2-45, Mar; *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar; On Television. Mar

Prince, Alfred M. 29 Mar

Princess Royal Island, British Columbia, Canada: *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan

Princeton, N. J.: White-tailed deer 68 Feb

Príncipe, Hernández: Account of Inca human sacrifice 101 Mar

Prinz Eugen (cruiser): Atomic test target 72 Jun; Wreck site 75 Jun

Prisons: Inmate gardening 58, 60, 64, 64, 65 May

Prohibition, National (1919-1933) 11 Feb

Project Tiger 8, 13, 15, 16, 18 May; Map locating reserves 11 May

Prominences, solar 32, 36, 41 May; Painting 41 May

Pronghorn: *Why Pronghorn Play So Long and So Fast*. Geographica. May

Prostitutes, male 62-63 Jun

Proverb, Japanese: Regarding alcohol 6 Feb

Pryor, Francis: *Bronze Age Way of Life Emerges in the Fens*. Geographica. Jan

Przewalski's horses: *Wild Asian Horse to Return Home*. Geographica. Mar

Ptolemy: Influence on Columbus 34-35 Jan

Pubescent birch: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr

Public bath: Republic of Georgia 105 May

Puck, Wolfgang 60 Jun

Puebla (state), Mexico: *Clothing Styles Adapt as Two Cultures Meet*. Geographica. Jan

Puget Sound, Wash.: *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. Feb

Pulak, Cemal: *From Bronze Age Wreck, "More of Everything."* Geographica. May

Pumasillo (peak), Peru: Inca reverence 110, 111 Mar

Pusey, Anne: *Captives in the Wild*. By Craig Packer. NGS research grant. 122-136, Apr

Pygmies: *Zaire's Efe People: Small From the Start*. Geographica. Jun

Pygmy chimpanzees see Bonobos

Pyramids, Egyptian: *Uncovering the Lives of the Pyramid Builders*. Geographica. May

## Q

Qiryat Arba (settlement), West Bank 64 Feb; Security patrols 107-108 Jun

qolla (costumed dancer) 97 Mar

Qoyllur Rit'i festival 95, 96-99 Mar

Quayle, Dan: *Crusader for Earth Also Fights a Personal Battle*. Earth Almanac. May

Quechua language 106-107 Feb

Queensland (state), Australia: *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr

Quehwar (peak), Argentina: Destruction of mummy by looters 99 Mar

Quezon, Manuel: Escape from Manila 69 Mar; Gift to MacArthur 70 Mar; Hiring of MacArthur 66 Mar

Quiché Indians: Alcohol consumption 22 Feb

Quicksilver see Mercury

Quilicum West Coast Indian Restaurant, Vancouver, British Columbia 118 Apr

quinceañera: Miami 98-99 Jan

## R

ROTC drill team 65 Jun

Rabinowitz, Alan: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr

Radiation: *Bikini's Nuclear Graveyard*. By John L. Eliot. Photos by Bill Cutsinger. 70-83, Jun

Radioactive springs: Public bath, Republic of Georgia 105 May

Radke, Larry 125, 128 Feb

Rafah, Gaza Strip: Market 90-91 Jun

Rafflesia: *Small Animals Help Plant a Big Flower*. Geographica. Apr

Ragni, Jim 125, 127 Feb

Rai, Raghu, photographer: *India's Wildlife Dilemma*. By Geoffrey C. Ward. 2-29, May

Railroads: Australia 74, 80 Apr; Canada 105 Apr; Russia 8, 14, 20-21 Jun

Rain forests, tropical: *Zaire's Efe People: Small From the Start*. Geographica. Jun

Rajaji National Park, Uttar Pradesh, India 18, 19, 20 May

Rajasthan (state), India: Forests, efforts to save 13, 28 May

Ram Allah (Ramallah), West Bank 62, 64 Feb; Effects of intifada 102, 103 Jun; Quaker school 102 Jun

Ramat Gan (suburb), Tel Aviv, Israel: Cultural center 53 Feb

Ranthambhore Foundation 28 May

Ranthambhore National Park, Rajasthan, India: Tigers 14, 17, 26, 28 May

Rare Eagle Sighted—Still Aloft, but for How Long? Earth Almanac. Feb

Ras Karkar, West Bank: Aerial view 86-87 Jun

Ras Mohammed National Park, Egypt: *To a Sandperch, It's All in a Night's Work*. Geographica. Jun

Rasputin, Valentin 8-9 Jun

Rathore, Fateh Singh 13, 15-16, 17, 18 May

Recipe for Instant Fish: First, Add Some Water.... Geographica. Apr

Reclamation: *Spouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan

Reconstructive surgery: *Bone of the Sea, Coral Mends the Human Frame*. Earth Almanac. Mar; Face-lift 66 Jun

Recycling: *Using Recycled Paper, NGS Cover Goes Green*. Earth Almanac. Jun

Red Army (U.S.S.R.): Annihilation of Buryat culture 28-29 Jun; Invasion of Georgia (1921) 84, 96 May

Red Sea: *To a Sandperch, It's All in a Night's Work*. Geographica. Jan

Red wolves: *Red Wolves Return to Smoky Mountains*. Earth Almanac. May

Reed, Joanna 67, 69 May; Needlepoint and garden 60 May

Reed, Nellie 53 Apr

Reef sharks, gray 135 Jan, 80-81 Jun; Attacks on monk seals 135 Jan

Reeves, Ed 79 Mar

Reeves, Hanneli, and garden 58-59 May

Reeves, Joseph M. 118 Jan

Reforestation: *Spouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan

Refugees: *Miami*. By Charles E. Cobb, Jr. Photos by Maggie Steber. 86-113, Jan; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun

Regel, Dave 89 Feb

Reher, Charles A.: *Where Buffalo Roamed—and Died*. Geographica. Feb

Rehovot, Israel: Science institute 49 Feb

Reid, Bill: *Haida Spirit Rides On in a Bronze Canoe*. Geographica. Apr

Reids Bluff, Ga. 53, 54 Apr

Reilly, William 125 Feb, On Assignment. Feb

Reiner, Jeff 125 Mar

Reinert, Al: *International Space Year: Moon Flights Revisited*. On Television. May

Reinhard, Johan, author-photographer: *Sacred Peaks of the Andes*. NGS research grant. 84-111, Mar; On Assignment. Mar

Reiter's syndrome 38 Jan

Relf, Diane 60 May

Relief and Works Agency, UN: Palestinian refugee support 98, 101 Jun

Religions and religious groups: *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar; see also Jews

Remis, Melissa 38 Mar

Remotely operated vehicles (ROVs): Lake Baikal 39 Jun; Lake Tahoe 120-121 Mar

Renzo, "Tiger Pete," and family, with pet tiger 119 Mar

RESEARCH & EXPLORATION: *To a Sandperch, It's All in a Night's Work*. Geographica. Jan

Ressmeyer, Roger H., author-photographer: *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. NGS research grant. 30-51, May; On Assignment. May

Rhinoceroses: Black rhinoceroses 71, 75, horn removal research 75 Jan; One-horned rhinoceroses 24-25, 27 May

Rice, Dale 140 Jan

Richards, Bob 118, 122 Mar

Richards, Michael W.: *Unique Chimp Behavior Documented on Film*. On Television. Mar



Riding costume: Andalusia, Spain  
2 Apr  
Right whales: DNA studies 124, 124  
May  
Ringers see Cowboys  
Rivo Alto Island, Fla.: Aerial view  
108 Jan  
Roach, Hal 53 Jun  
Roaches see Cockroaches  
Robbins, Mattie 77 May  
Robinson, John 133 Feb  
Robison, William L. 77 Jun  
Rock art: Australia 75 Apr; Namib  
Desert 69 Jan  
Rockville, Md.: Medical laboratory  
chimpanzees 32 Mar  
Rodale Institute, Kutztown, Pa. 70,  
70-71 May  
Rodriguez, Ernesto, Jr. 67 Mar  
Rodriguez, Manuel and Ruben 88-89  
Jan  
Rogerson, Bill 72-73 May  
Roldán, Francisco: Insurrection 51  
Jan  
Roman Catholicism: Integration with  
Andean beliefs 98, 103 Mar; Peru  
108 Feb; Spain 7 Apr  
Roosevelt, Franklin D.: Interactions  
with Douglas MacArthur 67, 70, 75  
Mar; U.S.S. *Macon* training mis-  
sion 118, 127 Jan  
Root, Joan 133 Apr  
Rose, George: *Deep Research Reveals  
Cod "Highways."* Geographica. Jan  
Rose growing: Old-fashioned roses  
77-78 May  
Ross, Marie Wiley 117 Jan  
Ross Street Temple, Vancouver, Brit-  
ish Columbia 117 Apr  
Rostworowski, Maria 121 Feb  
ROTC drill team 65 Jun  
Rouché, Berton: Writings on alcohol  
mythology 11 Feb  
Route 50, U. S. 128 Mar  
Roxburgh, Angus, author: *Georgia  
Fights for Nationhood*. Photos by  
Tomasz Tomaszewski. 82-111,  
May; On Assignment. May  
Roy J. Carver Charitable Trust. Presi-  
dent's Page. Jun  
Royal Flying Doctor Service of Aus-  
tralia 80 Apr  
Rozario, Maria 110 Apr  
Rubicon Group (Alcoholics Anony-  
mous) 29-30 Feb  
Rudderfish 134 Jan  
Ruiz, Bartolomé 102 Feb  
Rurua, Roman, with pet peacock 109  
May  
Russia: Alcohol consumption 28-30  
Feb; Alcoholism treatments 8, 9,  
29-30 Feb; *The Great Soviet Exodus*.  
By Tad Szulc. Photos by James  
Nachtwey. 40-65, Feb; *Kids Network  
Sends Data to Russia, With Love*. By  
Gilbert M. Grosvenor. President's  
Page. Jun; *Mammoth Lode of Ivory  
From the Pleistocene*. Earth Alma-  
nac. Jan; *Russia's Lake Baikal: The  
World's Great Lake*. By Don Belt.  
Photos by Sarah Leen. 2-39, Jun  
Rustaveli, Shota 98 May  
Rwanda: Eco-tourism 42 Mar; see also  
Virunga Mountains  
Ryder, Oliver: *Wild Asian Horse to Re-  
turn Home*. Geographica. Mar  
Rydl, Jirka, Tamara, and Katerina  
120-121, 121 May

## S

Sabah (state), Malaysia: Orangutan  
rehabilitation site 41 Mar  
Sabbagh, Hasib 95 Jun  
Sabina trees 32-33 Jan  
Sacha, Bob, photographer: *Search for  
Columbus*. By Eugene Lyon. 2-39,  
Jan  
Saciotto, Robert 73 May  
*Sacred Peaks of the Andes*. By Johan  
Reinhard. NGS research grant. 84-  
111, Mar  
Sacrifice see Animal sacrifice; Human  
sacrifice  
Sacrificial bundles, Andean 92, 93, 95  
Mar  
Sacahuamán, Peru 120-121 Feb  
Sagres, Cape St. Vincent, Portugal:  
Navigation school 7, 24 Jan  
Saidor, U.S.S.: Atomic bomb blast  
drill 73 Jun  
Saint-Émilion, France: Winery cellar  
18-19 Feb  
St. George, Ga.: Pageant contestant  
52 Apr; Rainstorm 54-55 Apr  
St. George's School, Vancouver, Brit-  
ish Columbia: Students 104 Apr  
St. Marys, Ga.: Development 54 Apr  
Sajama (peak), Bolivia: Aymara leg-  
end 101 Mar  
Sakawa (light cruiser): Atomic test  
target 75 Jun  
Salamanderfish: *Recipe for Instant  
Fish: First, Add Some Water....* Geo-  
graphica. Apr  
Salcantay (peak), Andes 111 Mar;  
Worship of 109 Mar  
Salfit, West Bank 104, 107 Jun; Tem-  
porary medical clinic 113 Jun  
Salmon: Kokanee salmon 125, 125  
Mar; Salmon fishery. *British Co-  
lumbia* map supplement. Apr  
Salón Cibeles, Madrid, Spain: Show  
20-21 Apr  
Sambor deer 10, 14, 18 May  
San Francisco, Calif.: *The Presidio  
Awaits a Changing of the Guard*.  
Geographica. Mar  
San Francisco County Jail No. 7: In-  
mate gardens 60, 64, 64 May  
San Francisco Opera, San Francisco,  
Calif.: Patrons 28-29 Feb  
San Miguel, Mount, Peru 110, 111  
Mar  
Sanchez-Lavega, Agustin: *Saturn's  
Stormy Weather: the Great White  
Spot*. Geographica. Mar  
Sanctuaries see Wildlife refuges  
Sand-diving lizard 78 Jan  
Sand dunes: Simpson Desert 66-67,  
70, 72, 74 Apr; Slip face zone 78, 79  
Jan  
Sandperch: *To a Sandperch, It's All in  
a Night's Work*. Geographica. Jan  
Sandringham Station, Queensland,  
Australia: Drafting pen 78-79 Apr  
Sands, Richard 117 Jan  
Santa María de la Rábida (monas-  
tery), Huelva, Spain 30, 34 Jan  
Santa Monica Blvd., Los Angeles,  
Calif.: Male prostitutes 62-63 Jun  
Santo Domingo, Dominican Republic  
39, 44, 51, 52 Jan, 96-97 Feb  
Santo mountain starling: *Photographic  
Debut for a Pacific Starling*. Geogra-  
phica. Jun  
São Miguel (island), Azores: *In the  
Azores, a Volcano Makes the Cooking  
Easy*. Geographica. Jun  
Saratoga (aircraft carrier) 76 Jun;  
Atomic test target 72, 72, 74, 75-77  
Jun; Wreckage 76-77 Jun  
Sarhan, Muhammad Hamdan Abu 88  
Jun  
Sariska National Park, Rajasthan,  
India 13, 15, 16, 18 May  
Sarmiento, Mary 124 Jun  
Sarraj, Eyad 104, 105 Jun  
Saturn: *Saturn's Stormy Weather: the  
Great White Spot*. Geographica. Mar  
Saudi Arabia: Desert discoloration  
132 Feb; Oiled coastline 132-133  
Feb  
Saunders, Linda 113-114 Apr  
Saunderson, Andrew and Jenny 77  
Apr  
Sauratown Gamelands, N. C.: Wild  
turkey release 76 Feb  
"Savage Paradise" (EXPLORER  
film): *Crater and Delta: Life and  
Death for African Wildlife*. On Tele-  
vision. Apr  
Savage-Rumbaugh, Sue 32, 34 Mar  
Save Our Rivers fund 57 Apr  
Savona, Italy: Holy Week celebration  
27 Jan  
Sayre, Francis B.: Escape from Ma-  
nila (1942) 69 Mar  
Scabbard tips, Spanish 51 Jan  
Schaller, George B. 13 Mar, 22 May  
Schillinger, Wilbur 84 Feb  
Schobinger, Juan 95, 103 Mar  
Schools: *To a Teacher, Home Is Where  
the Pupils Are*. Geographica. May;  
see also National Geographic Soci-  
ety Education Foundation  
Schumann, John: *California Puts a  
Charge Into Electric Carmakers*.  
Earth Almanac. Jan  
Science Supports Ancient Legends.  
Geographica. Mar  
Science World, Vancouver, British  
Columbia 109 Apr  
Scott, Brian 129 Feb  
Scott, Michelle Pellissier: *Burying  
Beetles Carry More Than Their  
Weight*. Geographica. May  
Scotto, Giacomo Centurione 13 Jan  
SCRU see Submerged Cultural Re-  
sources Unit  
SCUD missile attacks (1991): Tel  
Aviv 46 Feb  
Sculpin: Lake Baikal 38 Jun; Number  
of endemic species 38 Jun  
Sculpture: *Haida Spirit Rides On in a  
Bronze Canoe*. Geographica. Apr  
Sea Cliff (submersible): Location of  
remains of U.S.S. *Macon* 117 Jan  
Sea elephants: *Can Seal Pup Biology  
Help Save Infant Lives?* Geogra-  
phica. Apr  
Sea Life Park, Oahu, Hawaii: Monk  
seal research 136-137, 138, 140, 140,  
141, pup force-feeding 141 Jan  
"Sea Trek" (EXPLORER film): *Bub-  
ble Helmets Sound Ocean Depths*. On  
Television. Jun  
Seafloors see Ocean floors  
Seals see Baikal seals; Monk seals;  
Northern elephant seals  
Search for Columbus. By Eugene  
Lyon. Photos by Bob Sacha. 2-39,  
Jan  
Searl, David 8 Apr

- Seattle, Wash.: County detoxification program 21, inpatient 31 Feb  
 "Secret World of the Chimpanzee" (EXPLORER film): *Unique Chimp Behavior Documented on Film*. On Television. Mar  
 Seed Savers Exchange, Decorah, Iowa 66 May  
 Seeds: *The Gift of Gardening*. By William S. Ellis. Photos by Sam Abell. 52-81, May; *Small Animals Help Plant a Big Flower*. Geographica. Apr  
 Seeley Lake, British Columbia, Canada: *Science Supports Ancient Legends*. Geographica. Mar  
 Seely, Mary 75 Jan  
 Seifert, Ellie 118, 128, 129 Jun  
 Selenga Delta, Russia: Earthquake (1861) 17 Jun  
 Selenga River, Mongolia-Russia: Pollution of Lake Baikal 11, 20 Jun  
 Self-Realization Fellowship Lake Shrine, Los Angeles, Calif. 68 Jun  
 Senecio, giant 10-11 Mar  
 Seoul, South Korea: Alcoholic excesses 25, 27 Feb  
 Sepilok, Sabah, Malaysia: Orangutan rehabilitation site 41 Mar  
 Serahan Pheasant Breeding Centre, Himachal Pradesh, India: Himalayan monal chicks 23 May  
 Serhan, Samih 128 Feb  
 Seto, Eve 99 Apr  
 Severobaikalsk, Russia 14, 20 Jun; Rail station 20-21 Jun  
 Sevilla, Rodolfo 44-45 Jun  
 Seville, Spain 13, 28 Apr; Bridal boutique 21 Apr; Holy Week procession spectators 32-33 Apr; Reputed interment of Columbus 39 Jan  
 Seymour, Mount, near Vancouver, British Columbia: Snowboarder 112 Apr  
 Shaismelashvili, Sandro 99 May  
 Shakespear, William: Observations on effects of alcohol consumption 15 Feb  
 Shamanism: Lake Baikal 28, vodka offering 22 Jun  
 Shamir, Yitzhak 46 Feb  
 Sharks: Gray reef sharks 135, 135, 137 Jan, 80-81 Jun; Tiger sharks 137 Jan  
 Sharon, Ariel 56, 58 Feb  
 Shatz, Chaim 55 Feb  
 Shearwaters, wedge-tailed 143 Jan  
 Sheep: Caucasus Mountains 86-87, 108 May; Olkhon Island, Lake Baikal 30-31 Jun  
 Sheepshearing: Italy 14-15 Jan  
 Shell icons, Inca 90 Mar  
 Shenandoah (airship): Crash 118 Jan  
 Shenyang, China see Mukden, Manchuria  
 Sherpur, Rajasthan, India: Crafts cooperative 28 May  
 Shetland Islands, Scotland: *From a Water Hazard, Clues to Golf History*. Geographica. Feb  
 Shevardnadze, Eduard 88 May  
 Shilstone, Arthur, artist: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Photos by James A. Sugar. NGS research grant. 40-53, Jan  
 Shinto wedding 26 Feb  
 Shipping: Alcohol transport tank 16-17 Feb; Grain tank 120-121 Apr  
 Shipwrecks: *Bikini's Nuclear Graveyard*. By John L. Eliot. Photos by Bill Curtisinger. 70-83, Jun; *From Bronze Age Wreck, "More of Everything"*. Geographica. May; Skeleton Coast 64, 65, 67 Jan  
 Shiraki Steppe, Republic of Georgia: Sheep pasturing 108 May  
 Shirobokova, Natasha 9 Jun  
 Shisler, Dutch 21 Feb  
 Shore, Mitzi 62 Jun  
 Shors, Edwin: *Bone of the Sea, Coral Mends the Human Frame*. Earth Almanac. Mar  
 Shoup, Mike 78 May  
 Shrimp: *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. Feb  
 Shulgina, Zinaida 33 Jun  
 Siberia (region), Russia: *Mammoth Lode of Ivory From the Pleistocene*. Earth Almanac. Jan; *Russia's Lake Baikal: The World's Great Lake*. By Don Belt. Photos by Sarah Leen. 2-39, Jun  
 Sideling Hill, near Hancock, Md.: *An Open-air Textbook: Lessons in Stone*. Geographica. Jun  
 SIDS see Sudden infant death syndrome  
 Siegel, Benjamin "Bugsy" 43 Jun  
 Sierra Leone: Chimpanzee exporter 27 Mar  
 Sierra trees: Lake Tahoe bark beetle blight 124, 131 Mar  
 Sikhs: Emigration to Vancouver, B. C. 116-117, 118 Apr  
 Silver: Atahualpa's ransom 105 Feb; Spanish conquest 116 Feb  
 Silver figurines, Inca 116 Feb, 88, 89 Mar  
 Silver Lake, Los Angeles, Calif.: Gang violence 47 Jun; Gay bashing 47 Jun; Launderette performance artist 54 Jun; Mudpeople 61 Jun; Street mural 46-47 Jun  
 Silver maples: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr  
 Silver mines see Potosi  
 Sime, Betty 110 Jan  
 Simpson, A. A. 70 Apr  
 Simpson Desert, Australia: *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr  
 Simpson Paper Company: *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb  
 Sinakara Valley, Peru: Religious festival 96-97 Mar  
 Singh, Arjan "Billy" 22, 23, 26 May  
 Singh, Brijendra 10 May  
 Siniara, Hanna 95-96, 112 Jun  
 Sitter, Franz 27 Mar  
 Six Day War (1967) 45, 62 Feb, 94 Jun  
 Sixth International Colloquium on Brain and Aggression (1986): Statement on warfare 33 Mar  
 Skafi, Kifayah 88 Jun  
 Skeleton Coast, Namibia: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, Jan  
 "skid row": Phrase origin 21 Feb  
*Skies to Become Quieter, Cleaner—and Costlier*. Earth Almanac. Jun  
 Skulls: *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar  
 Slavery: *Park Service to Mark the Road to Freedom*. Geographica. Apr; *Spain in the Americas* map supplement. Feb  
 Slay, Christopher 124 May  
 Sleep: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr; Disruption from alcohol consumption 19 Feb  
 Sleigh, horse-drawn 15 Jun  
 Slush Cup (ski competition) 111 Apr  
 Slyudyanka, Russia: Cooling of coal slag 16-17 Jun  
*Small Animals Help Plant a Big Flower*. Geographica. Apr  
 Smallpox: New World epidemics 94, 103 Feb; *Spain in the Americas* map supplement. Feb  
*Smart Cars Map Route to the 21st Century*. Geographica. Feb  
 Smell, sense of: *Babies Cry Out: Garlic, Yes; Alcohol, No*. Geographica. May; Therapeutic value of scents 64 May  
 Smith, H. T. 109 Jan  
 Smiin, Mabel 75, 85, 88 Apr  
 Smith, Mark 127 Mar  
 Smith, Richard 104, 105 Jan  
 Smith, Robert 70 May  
 Smith & Hawken gardening tools: Sales 81 May  
 Smoky Mountains see Great Smoky Mountains National Park  
 Socaire, Chile: Mountain worship 91 Mar  
 Socrates: Warnings against excessive alcohol consumption 9 Feb  
 Solar cells 74 Jan  
 Solar eclipses: *An Epic Eclipse for Southern California*. Earth Almanac. May; *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, May  
 Solar flares: Communication disruption 41 May; Painting 41 May  
 Solar system: Dust ring 37 May  
 Solar wind: Distances traveled 36, 41 May  
 South America: *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. Jun; *Pizarro, Conqueror of the Inca*. By John Hemming. Photos by Stuart Franklin. 90-121, Feb; *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar; *Spain in the Americas; The Grand Exchange* map supplement. Feb  
 South Australia (state), Australia: *The Simpson Outback*. By Jane Vessels. Photos by Medford Taylor. 64-93, Apr  
 South Carolina: *From Civil War Camp to Resort Community*. Geographica. Jun; Wild turkeys 76, 77 Feb  
 South Korea see Korea, South  
 South Ossetia, Republic of Georgia 92-93, 95, 96 May; Family 92-93 May  
 Southeast Asia: Map showing ape ranges (present and ancient) 13 Mar; see also Indonesia; Thailand  
 Southern Cross: Significance to Inca 109-110, 111 Mar  
 Southwest Foundation for Biomedical Research, San Antonio, Tex.: Chimpanzee research subjects 30, 31 Mar

Soviet Jews: *The Great Soviet Exodus*. By Tad Szulc. Photos by James Nachtwey. 40-65, Feb  
 Space flights and research see Apollo missions  
 Spago restaurant, Los Angeles, Calif. 60 Jun  
 Spain: *The New World of Spain*. By Bill Bryson. Photos by David Alan Harvey. 3-33, Apr; *Search for Columbus*. By Eugene Lyon. Photos by Bob Sacha. 2-39, Jan; *Spain in the Americas*; *The Grand Exchange* map supplement. Feb  
 Spanish Civil War: Memorial 24-25 Apr  
 Spanish Inquisition 23 Apr  
 Sparrow, Chief Ed 100, 101 Apr  
 Sparrowhawks (biplanes): U.S.S. *Maccon*: *Lost and Found*. By J. Gordon Vaeth. 114-127, Jan  
 Sperm, lion: Normal and abnormal samples 133 Apr  
 Spider monkeys: Brain size 24 Mar  
 Spiders: *Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. May; Web 62 Jan  
*Spinning Spiders: Pioneers of the Wheel*. Earth Almanac. May  
 Spinola, Paolo 13 Jan  
 Spirit Bear Provincial Park (proposed), British Columbia, Canada: *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan  
 "Spirit of Haida Gwaii" (bronze sculpture): *Haida: Spirit Rides On in a Bronze Canoe*. Geographica. Apr  
 Sponges, freshwater 62 Apr, 38 Jun  
 Spotted sandpiper: *To a Sandpiper, It's All in a Night's Work*. Geographica. Jan  
*Sprouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan  
 Squaw Valley, Calif. 127 Mar  
 Squid fishing: *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. Apr  
 Stalin, Joseph: Birthplace 88, 90, 91 May; Bust 83 May; Creation of Ossetian autonomous region 96 May; Siberian collectivization 28 Jun  
 Stanardsville, Va.: Pitcher plant nursery 73 May  
 Stander, Philip 81 Jan  
 Stanfield, James L.: *Independent Cat Opens the Vatican's Portals*. Geographica. Jan  
 Stanley, Daniel J.: *Will the Nile Delta Sink Into the Sea?* Geographica. Feb  
*Star Search* (television show): Spokesmodel contestant 56 Jun  
 Star Snow festival, Peru 95, 96-99 Mar  
 Starlings: *Photographic Debut for a Pacific Starling*. Geographica. Jun  
 Stateline, Nev.: Casinos 119, 126 Mar  
 Steber, Maggie, photographer: *Miami*. By Charles E. Cobb, Jr. 86-113, Jan  
*Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr  
 Steinbeck, John: Alcoholism 11 Feb; Employment at fish hatchery 118 Mar  
 Steinmetz, George, author-photographer: *Fetal Alcohol Syndrome: The Preventable Tragedy*. 36-39, Feb; photographer: *Alcohol, the Legal Drug*. By Boyd Gibbons. 2-35, Feb

Sténuît, Robert: *From a Water Hazard, Clues to Golf History*. Geographica. Feb  
 Stepanov, Vladimir and Evgenia 37 Jun  
 Stephen Foster State Folk Culture Center, Fla. 56 Apr  
 Steppes, Mongolian: *Wild Asian Horse to Return Home*. Geographica. Mar  
 Stewart, Edna 70, 71 Apr  
 Stewart, Jim: *Park Service to Mark the Road to Freedom*. Geographica. Apr  
 Stierheim, Merrett 93, 109 Jan  
 Stimson, Henry L. 70 Mar  
 Stockholm, Nan: *The Presidio Awaits a Changing of the Guard*. Geographica. Mar  
*Stiomoxys calcitrans* 126 Apr; Ngorongoro Crater lion epidemic 126, 133, victim 127 Apr  
 Stone, Garry 124 Mar  
 Stone boxes, Inca 101, 103, 109 Mar  
 Stonehenge, Salisbury Plain, England 37 May  
 Storms: *Saturn's Stormy Weather: the Great White Spot*. Geographica. Mar; see also Lightning  
 Stouffer, Mark. On Television. Apr  
 Straus, Martha 64 May  
*Street to the Stars: Sunset Boulevard*. By Rick Gore. Photos by Steve McCurry. 40-69, Jun  
 Streicher, Fritz 34 Jan  
 Streissguth, Ann 19, 38 Feb  
 Stuart, John McDouall 73 Apr  
 Sturt, Charles 91-92 Apr  
 Sturt Stony Desert, South Australia, Australia 91-92 Apr  
 Suarez, Xavier 92, 104 Jan  
 Submerged Cultural Resources Unit (SCRU): Bikini Lagoon evaluation 76, 77, 83 Jun  
 Sudbury, Ontario, Canada: *Sprouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan  
 Sudden infant death syndrome (SIDS): *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr  
 Sugar, James A., photographer: *La Isabela, Europe's First Foothold in the New World*. By Kathleen A. Deagan. Paintings by Arthur Shilstone. NGS research grant. 40-53, Jan  
 Sugiyama, Yukimaru 38, 40 Mar  
*Suiderkus* (trawler): Wreck 65 Jan  
 Sumatra (island), Indonesia: Orangutans 13, 17, 43, researcher 42 Mar  
 Summer Olympics, 1992 13, 14 Apr  
 Sumrein, Abdullah 93 Jun  
 Sun: *An Epic Eclipse for Southern California*. Earth Almanac. May; *The Great Eclipse*. By Jay M. Pasachoff and Roger H. Ressmeyer. Photos by Roger H. Ressmeyer. NGS research grant. 30-51, May  
 Sun festival reenactments 92-93, 120-121 Feb  
 Sun Yat-Sen 116 Apr  
 Sundance, Wyo.: *Where Buffalo Roamed—and Died*. Geographica. Feb  
 Sunset Boulevard, Los Angeles, Calif.: *Sunset Boulevard: Street to the Stars*. By Rick Gore. Photos by Steve McCurry. 40-69, Jun  
*Sunset Boulevard* (film) 44 Jun  
 Sunspots: Painting 41 May

*Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb  
 Suricate 66, 74 Jan, On Assignment. Jan  
 Susie (chimpanzee) 37 Mar  
 Susman, Randall 24 Mar  
 Suwanee, Fla. 58 Apr  
 Suwanee Canal Recreation Area, Ga.: Alligator 86 Feb; Cancers 46-47 Apr  
 Suwanee River Water Management District 57, 58 Apr  
 Svaneti people: Medieval watchtower 103 May  
 Swamp deer 21, 22, 26 May  
 Swamps: *Blackwater Country*. By Richard Conniff. Photos by Melissa Farlow. 34-63, Apr  
 "Swanee River (Old Folks at Home)" (Foster) 56 Apr  
*Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun  
 Swanson, Dick, photographer: *Cuttyhunk Seasons*. By Judith Brown. 114-132, Jun  
 "Swedish bikini team" (advertising campaign) 32 Feb  
 Swift Creek Methodist Church, near White Springs, Fla.: Annual family homecoming 42 Apr  
 Swiss chard: Namib Desert garden crop 74 Jan  
 Swords: Japanese bamboo 75 Mar; U. S. confiscations from Japanese citizens, World War II 74 Mar  
 Sylvius, Aeneas see Pius II  
 Syncline: *An Open-air Textbook: Lessons in Stone*. Geographica. Jun  
 Syphilis. *Spain in the Americas* map supplement. Feb  
 Szafranski, Joe 103 Apr  
 Szulc, Tad, author: *The Great Soviet Exodus*. Photos by James Nachtwey. 40-65, Feb

## T

Taberna del Alabardero restaurant, Madrid, Spain 18 Apr  
 Tackett, Randi 56 Jun  
 Tahoe, Lake, and basin, Calif.-Nev.: *Lake Tahoe—Playing for High Stakes*. By Ernest B. Furgurson. Photos by George F. Mobley. 113-132, Mar  
 Tahoe City, Calif.: Annual snowfall 127 Mar; Fish hatchery 118, 125 Mar; Snowfest princesses (1991) 130 Mar  
 Tahoe Conservancy see California Tahoe Conservancy  
 Tahoe Dam, Lake Tahoe, Calif.-Nev. 124 Mar  
 Tahoe Keys, Calif. 122-123, 125-126, 127, 128 Mar  
 Tahoe Regional Planning Agency 128 Mar  
 Tahoe Research Group 118, 122 Mar  
 Tahoe-Sierra Preservation Council 131 Mar  
 Tai forest, Côte d'Ivoire: Chimpanzees 14, 22-24, 26, 27 Mar  
 Taino Indians 42, 44 Jan; Ceramic figurines 44 Jan; Painting of 42-43 Jan; Population (1494) 45 Jan; Rebellion against Spaniards 50-51 Jan; Shell beads 44 Jan

- Taiwan: Emigration to Vancouver, B. C. 107, 114 Apr; Orangutan trade 41 Mar; *Walls of Death, Drift Nets Will Kill No More*. Earth Almanac. Apr
- Talavera, Hernando de 30 Jan
- Talbot, John 103 Apr
- Tales of Climate Change Held Deep in the Ice*. Geographica. Jun
- Tallac, Mount, Calif.: Vista 114-115 Mar
- Tallgrass prairie: *Power to the Prairie on an Iowa Refuge*. Earth Almanac. Mar
- Tamames, Ramón 13, 28, 31 Apr
- Tamara, Queen (Georgia) 86 May
- Tamayo, Rufino. On Television. Feb
- Tamiser, Patrick 20 Feb
- Tampa Airlines: Drug interdiction efforts 95 Jan
- Tanner, Roger: *Bolt From the Blue More Likely to Hit Men*. Geographica. Apr
- Tanzania: *Captives in the Wild*. By Craig Packer. NGS research grant. 122-136, Apr; Chimpanzees 22, 33, 35 Mar; On Television. Apr
- Tarabuco, Bolivia: Festival 90-91 Feb
- Tarzan (film character) 36 Mar
- Tata Sabaya (peak), Bolivia: Worship of 95, 101, 107 Mar
- Tatarniuk, Michael 116 Apr
- Tatum, Ted 42 Apr
- Taviani, Paolo Emilio 33 Jan
- Tawil, Eyad and Hayat 110 Jun
- Taylor, Low 116, 118 Jun
- Taylor, Medford, photographer: *The Simpson Outback*. By Jane Vessels. 64-93, Apr
- Taylor Creek, near Lake Tahoe, Calif.: Anti-erosion measures 125 Mar
- Tbilisi, Republic of Georgia: *Georgia Fights for Nationhood*. By Angus Roxburgh. Photos by Tomasz Tomaszewski. 82-111, May
- Tectonic forces see Plate tectonics
- Tel Aviv, Israel: Cultural center 53 Feb; Food handouts to Soviet immigrants 65 Feb; SCUD 57, operating room 57 Feb; SPUD missile attacks 46 Feb
- Television films, NGS: "Braving Alaska." Cover announcement. Apr; On Television. Apr
- "Eternal Enemies: Lions and Hyenas." Cover announcement. Jan; On Television. Jan
- "The Mexicans: Through Their Eyes." Cover announcement. Feb; On Television. Feb
- see also EXPLORER; Videos, NGS
- Television networks: Competition from other entertainment sources 58-59 Jun
- Telluride, Colo.: High-altitude gardens 52-53, 66, 67 May
- Tenebrionid beetles 79 Jan
- Tenhu, Martti 14, 19, 20 Feb
- Tennessee: Prison inmate gardening program 68, 60, 65 May; see also Great Smoky Mountains National Park
- Tennessee Federation of Garden Clubs: Support of prison inmate gardening program 60 May
- Termites, harvester 75 Jan
- Tern Island, French Frigate Shoals, Hawaii 130, 143 Jan
- Terrana, Anna 116 Apr
- Texas: Rose growing 77-78 May; *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar
- Thailand: *Conclave of Cats Besieged in a Thai Refuge*. Earth Almanac. Apr
- Thames River, England: *Nosy Detective to Monitor River Thames Pollution*. Earth Almanac. Jan
- Thapar, Valmik 26, 27-28 May
- 32nd U. S. Colored Infantry: *From Civil War Camp to Resort Community*. Geographica. Jun
- Thompson, Bruce 55 Apr
- Thompson, Orival 54 Apr
- Thompson-Handler, Nancy 40 Mar
- Thrift, Deborah 54 Apr
- Throat cancer: Incidence among heavy drinkers 19 Feb
- Tiahuanaco culture: *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar
- "Tides of War" (EXPLORER film): *Nightmare in the Gulf Takes Its Toll*. On Television. Feb
- Tiedeman, Lightning 80 Apr
- Tierney, Patrick 95 Mar
- Tiger, Lionel 35 Mar
- Tiger sharks: Attacks on monk seals 137 Jan
- Tigers: *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May; Pet tiger 119 Mar
- Tikhonov, Genady 33 Jun
- Tilton, Wilfred 116, 120, 122 Jun
- Timonin, Sasha 23, 31, 36 Jun, On Assignment. Jun
- tinku (ritual battle) 95 Mar
- Titicaca, Lake, Bolivia-Peru: *Sacred Peaks of the Andes*. By Johan Reinhard. NGS research grant. 84-111, Mar
- Titusville, Fla.: Paleo-Indian bog bodies 120, 121 May
- To a Sandperch, It's All in a Night's Work*. Geographica. Jan
- To a Teacher, Home Is Where the Pupils Are*. Geographica. May
- Toads: *British Leap to Save Amorous Amphibians*. Earth Almanac. Mar
- Tokyo, Japan: Saloons 27 Feb
- Toledano, Shmuel 108 Jun
- Toledo, Ga.: Turpentine trade 53 Apr
- Tomaszewski, Tomasz, photographer: *Georgia Fights for Nationhood*. By Angus Roxburgh. 82-111, May; On Assignment. May
- Tomatoes: Heirloom varieties 64, 66 May; Selection of varieties 78 May; *Spain in the Americas* map supplement. Feb
- Tombs: *Uncovering the Lives of the Pyramid Builders*. Geographica. May; West Bank 93 Jun
- Toracari, Bolivia: Ritual battle 95 Mar
- toreros 20-21, 24, 25 Apr
- Torralba, Juan Guillén 33 Jan
- Toscanni dal Pozzo, Paolo: Cosmographic theories 25-26 Jan
- Total Petroleum, Inc. President's Page. Mar
- Town of Gosnold, Cuttyhunk Island, Mass. 121 Jun; Town meeting 124-125, 125 Jun
- Toxic pollution: *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. Jun; *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb
- Trade: *Spain in the Americas; The Grand Exchange* map supplement. Feb
- Transplants: *Bone of the Sea, Coral Mends the Human Frame*. Earth Almanac. Mar; see also Bone-marrow transplants; Organ transplants
- Trash: *Steep Price Hike Aids Mount Everest Cleanup*. Earth Almanac. Apr; *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar
- Trees: *Even in Spring, Leaves Fall—Some Forever*. Earth Almanac. Apr; *Spouted Deep in a Mine, Trees Restore the Surface*. Earth Almanac. Jan
- Trees: *Small Animals Help Plant a Big Flower*. Geographica. Apr
- Trewella, Cheryl 73 Feb
- Truckee River, Calif. 116, 124 Mar
- Trujillo, Rafael 47 Jan
- Truman, Harry S. 80, 80 Mar; Firing of MacArthur 81, 82 Mar
- Trumpeter swans: *Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun
- Tskhaltubo, Republic of Georgia: Public bath 105 May
- Tskhinvali, South Ossetia, Republic of Georgia 92, 96, 98 May; Hospital room 95 May
- Tsileilwaututh Indians 102 Apr; Name change 118 Apr
- Tumbes, Peru: Smallpox 103 Feb
- Tunic, Inca ceremonial 119 Feb
- Tunis, Tunisia: Palestinian government-in-exile headquarters 111 Jun
- Tupac Amaru (Inca emperor) 116, 118 Feb
- Turkey: *From Bronze Age Wreck, "More of Everything."* Geographica. May
- Turkeys: Aztec domestication. *Spain in the Americas* map supplement. Feb; *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb
- Turpentine trade: Okefenokee swamps 49, 53 Apr
- Turvey, John 117 Apr
- Tusheti (region), Caucasus Mountains, Azerbaijan-Georgia-Russia: Sheep pasturing 108 May
- Tuttle, Julia 98-99 Jan; Homesite 112 Jan
- Twain, Mark: Writings on Lake Tahoe 115-116, 118, 122 Mar
- 21°N (hydrothermal site). *Pacific Ocean* map supplement. Jun
- XXV Olympic Games 13, 14 Apr
- Twiss, John 141 Jan
- Tyagananda, Brother 68 Jun

## U

- ukuku 98 Mar
- Ulan Ude, Buryat Republic, Russia: Water pollution 20 Jun
- Ulu Burun (cape), Turkey: *From Bronze Age Wreck, "More of Everything."* Geographica. May



**Uncovering the Lives of the Pyramid Builders.** Geographica. May  
**Underground Railroad: Park Service to Mark the Road to Freedom.** Geographica. Apr  
**Underwater exploration: Bikini's Nuclear Graveyard.** By John L. Eliot. Photos by Bill Curtisinger. 70-83, Jun; see also Archaeology, underwater  
**Union of Soviet Socialist Republics:** Former republics see Georgia, Republic of; Russia  
**Unique Chimp Behavior Documented on Film.** On Television. Mar  
**United Kingdom Immigrant Advisory Service** 123 May  
**United Nations: Allied forces in Korea (1950s)** 78, 80-82, soldiers 78 Mar; Partition of Palestine (1947) 92, 94 Jun; Refugee support 98, 101 Jun; Walls of Death, Drift Nets Will Kill No More. Earth Almanac. Apr  
**United States: Alcoholic beverage production (1990)** 33 Feb; Alcoholic population 21, 27, 34-35 Feb; Drunk-driving deaths, annual total 15, 21 Feb; **Eastern Wildlife—Bittersweet Success.** By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb; see also states by name  
**U. S. Army: Douglas MacArthur: An American Soldier.** By Geoffrey C. Ward. Photos by Cary Wolinsky. 54-83, Mar; **From Civil War Camp to Rescue Community.** Geographica. Jun; **The Presidio Awaits a Changing of the Guard.** Geographica. Mar  
**U. S. Congress: Monk seal research grant** 141 Jan  
**U. S. Constitution: 18th Amendment (1919)** 11 Feb  
**U. S. Environmental Protection Agency (EPA):** Kuwaiti wellhead fire plume research 125 Feb; **Surfers Confront Polluters to Catch a Cleaner Wave.** Earth Almanac. Feb  
**U. S. Fish and Wildlife Service: Power to the Prairie on an Iowa Refuge.** Earth Almanac. Mar  
**U. S. Forest Service: Lake Tahoe timber maintenance** 124, 130, 131 Mar  
**U. S. Military Academy, West Point, N. Y.:** Military review (ca 1919) 61 Mar; Plebes 60-61 Mar; Reforms under MacArthur 60, 63 Mar  
**U. S. National Park Service: Alien to Olympic Park, Mountain Goats May Go.** Earth Almanac. Jun; Bikini Lagoon evaluation 76, 77, 83 Jun; **Park Service to Mark the Road to Freedom.** Geographica. Apr; **The Presidio Awaits a Changing of the Guard.** Geographica. Mar  
**U. S. Navy: Bikini's Nuclear Graveyard.** By John L. Eliot. Photos by Bill Curtisinger. 70-83, Jun  
**U. S. Route 50** 128 Mar  
**U.S.S. Macon: Lost and Found.** By J. Gordon Vaeth. 114-127, Jan  
**Universal Studios: Purchase by Japanese** 58 Jun  
**University of California at Los Angeles: Student demographics** 67 Jun  
**University of North Carolina: Study of effects of alcohol consumption during pregnancy** 37, 37 Feb

**Upper Truckee Marsh, Calif.:** Destruction by development 122, 125-126 Mar  
**Ursus americanus kermodei: Black Bear of a Different Color Needs Protection.** Earth Almanac. Jan  
**Ushguli, Republic of Georgia:** Medieval structures 102-103 May  
**Ushkani Islands, Lake Baikal, Russia** 7 Jun  
**Using Recycled Paper, NGS Cover Goes Green.** Earth Almanac. Jun  
**Ust Barguzin, Russia** 8, 31 Jun; Fishing cooperative workers 12-13 Jun; Painted residence 37 Jun

## V

**Vaeth, J. Gordon, author: U.S.S. Macon: Lost and Found.** 114-127, Jan  
**Vaillant, George** 30, 34 Feb  
**Valladolid, Agustín** 22 Apr  
**Valverde, Vincente de** 109, 111 Feb  
**Vancouver, British Columbia, Canada: British Columbia map supplement.** Apr; **Vancouver—Good Luck City.** By Andrew Ward. Photos by Annie Griffiths Belt. 94-121, Apr  
**Vancouver Canadians (minor-league baseball team): Fans** 115 Apr  
**Vancouver Public Aquarium, British Columbia, Canada: Belugas** 97-98, cover, Apr  
**van Sweden, James** 73 May  
**Vanuatu: Photographic Debut for a Pacific Starling.** Geographica. Jun  
**Vasiliev, Sergei** 2, 8, 32 Jun  
**Vater, Yuri** 57 Feb  
**Vatican City: Independent Cat Opens the Vatican's Portals.** Geographica. Jan  
**Veeder, Ellen** 120, 124 Jun  
**Vega, Bartolomé de** 116 Feb  
**Vegetables: The Gift of Gardening.** By William S. Ellis. Photos by Sam Abell. 52-81, May; **Spain in the Americas; The Grand Exchange** map supplement. Feb  
**Velavadar National Park, Gujarat, India** 7 May; **Blackbuck** 6-7 May  
**Vending machines: Japanese mixed-drink dispensers** 27 Feb  
**Vents, underwater** see Hydrothermal vents  
**Verónica (peak), Peru: Inca reverence** 110, 111 Mar  
**Vessels, Jane, author: The Simpson Outback.** Photos by Medford Taylor. 64-93, Apr  
**Veye Yo (Haitian activist group): Member** 104 Jan  
**Vicente, Martín** 26 Jan  
**Videos, NGS:**  
 "Cats: Caressing the Tiger." On Television. Mar  
 "For All Mankind." On Television. May  
**Vilab II (research lab), Liberia: Captive-bred chimpanzees** 28 Mar  
**Vilcabamba, Peru: Capture of Tupac Amaru** 116 Feb  
**Vilchinskaya, Lena** 14 Jun  
**Viljoen, P. J.** 66 Jan  
**Vine, Peter** 133 Feb  
**Vineyards: Republic of Georgia** 106-107, 110 May; see also Grape cultivation

**Viracocha, Altar of, Lake Titicaca, Peru-Bolivia** 103 Mar  
**Virgin of El Rocío** 19-20 Apr  
**Virunga Mountains, Rwanda-Uganda-Zaire** 5, 38, 42 Mar; Gorilla researcher 10 Mar  
**Viruses: Pre-Columbian evidence** 99 Mar; see also HIV research  
**Vitcos, Peru: Road to Machu Picchu** 109 Mar  
**Vladimir II, Grand Prince (Kiev): Praise of alcohol** 28 Feb  
**Vodka: Russian drinking habits** 28-30 Feb; Shamanist offering 22 Jun  
**Volcanoes: In the Azores, a Volcano Makes the Cooking Easy.** Geographica. Jun; **Indian Ocean map supplement.** Jun  
**Volunteer Countdown to Cleaner Beaches.** Geographica. Mar  
**Vore Buffalo Jump, Sundance, Wyo.: Where Buffalo Roamed—and Died.** Geographica. Feb  
**Vrba, Elisabeth** 24 Mar

## W

**Wagon Wheel Saloon, Stateline, Nev.** 126 Mar  
**Wailing Wall, Jerusalem** 62 Feb  
**Wainwright, Jonathan** 65 Mar  
**Walker, Dale** 34 Feb  
**Walls of Death, Drift Nets Will Kill No More.** Earth Almanac. Apr  
**Walnut Creek National Wildlife Refuge, Iowa: Power to the Prairie on an Iowa Refuge.** Earth Almanac. Mar  
**Walsh, Alycia** 73 May  
**Walters, Heather** 52 Apr  
**Wamba forest, Zaire: Bonobos, Chimpanzees With a Difference.** By Eugene Linden. Photos by Frans Lanting. 46-53, Mar  
**Wangkanguru people** 70 Apr  
**War Plan Orange** 66, 69 Mar  
**Ward, Andrew, author: Vancouver—Good Luck City.** Photos by Annie Griffiths Belt. 94-121, Apr  
**Ward, Carmen** 132 Jun  
**Ward, Geoffrey C., author: Douglas MacArthur: An American Soldier.** Photos by Cary Wolinsky. 54-83, Mar; **India's Wildlife Dilemma.** Photos by Raghu Rai. 2-29, May  
**Ward, John** 132 Jun  
**Warfare: Origins** 33, 35 Mar  
**Warts: Pre-Columbian afflicted mummies** 99 Mar  
**Washington: Alien to Olympic Park, Mountain Goats May Go.** Earth Almanac. Jun; **Whales Gorge on Shrimp and Eat a Beach!** Earth Almanac. Feb  
**Washington, D. C.: Haida Spirit Rides On in a Bronze Canoe.** Geographica. Apr; **Maps for the Blind Have a Different Feel.** Geographica. Jun  
**Washoe Indians: Lake Tahoe gatherings** 118 Mar  
**Wasps: Spinning Spiders: Pioneers of the Wheel.** Earth Almanac. May  
**Watchtower: Ushguli, Republic of Georgia** 103 May  
**Water buffalo: No Quarter: Australia Targets Alien Animals.** Earth Almanac. Feb  
**Water hyacinth** 24-25 May

- Water pollution: *Amazon's Gold Rush Spills Deadly Quicksilver*. Earth Almanac. Jun; Lake Tahoe 117, 118, 122, 131 Mar; *Nosy Detective to Monitor River Thames Pollution*. Earth Almanac. Jan; Selenga River, Mongolia-Russia 11, 20 Jun; *Surfers Confront Polluters to Catch a Cleaner Wave*. Earth Almanac. Feb; U. S. water supply 77 May; *Volunteer Countdown to Cleaner Beaches*. Geographica. Mar; see also Oil spills
- Waterfowl: *Swan's Way Lost—Can Trumpeters Return East?* Earth Almanac. Jun; see also Canada geese
- Watermelon: Heirloom variety 73 May
- Waters, Johnny: *Chinese Desert Fossils Locate an Ancient Sea*. Geographica. May
- Watson, James D. 116 May
- Waycross, Ga.: Family reunion 42 Apr
- Weather: *Bolt From the Blue More Likely to Hit Men*. Geographica. Apr
- Weaving: Andean religious practice 97 Mar; Inca ceremonial tunic 119 Feb; Inca religious offerings 88, 89 Mar; Peruvian weaver 118-119 Feb
- Wedge-tailed shearwaters 143 Jan
- Wegner, Hans: *Using Recycled Paper, NGS Cover Goes Green*. Earth Almanac. Jun
- Weiser, Sherwood and Judy 97 Jan
- Weiss, Mike 59 Jun
- Weissmuller, Johnny 36 Mar
- Weitkamp, Laurie: *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. Feb
- Weizmann Institute of Science, Rehovot, Israel 49 Feb
- Welwitschia plants 75 Jan
- West Bank: *Did Trumpets or a Quake Tumble Jericho's Walls?* Geographica. Jan; Jewish settlements 45, 49, 62, 64 Feb; *Who Are the Palestinians?* By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun
- West Hollywood, Los Angeles, Calif. 62-63 Jun; Demographics 63 Jun
- West Indies: *Search for Columbus*. By Eugene Lyon. Photos by Bob Sacha. 2-39, Jan
- Western Australia (state), Australia: *Recipe for Instant Fish: First, Add Some Water....* Geographica. Apr
- Western Hemisphere: Map of path of totality of 1991 solar eclipse 38 May; *Spain in the Americas* map supplement. Feb
- Western Wall, Jerusalem 62 Feb
- Westfall, Dan 36, 37 Mar
- Westvaco: *Using Recycled Paper, NGS Cover Goes Green*. Earth Almanac. Jun
- Wetlands see The Fens; Okefenokee Swamp
- Wet'suw'en people: *Science Supports Ancient Legends*. Geographica. Mar
- Whale-Skate Island, French Frigate Shoals, Hawaii 130 Jan; Monk seals 141, 143 Jan
- Whales: Belugas 97-98, cover. Apr; North Atlantic right whales 124, 124 May; *Whales Gorge on Shrimp and Eat a Beach!* Earth Almanac. Feb
- Whealy, Diane 66 May
- Whealy, Kent 64, 66 May
- Wheeler, Rex 95 Jan
- Where Buffalo Roamed—and Died. Geographica. Feb
- Whiskey: Early American consumption 11 Feb
- Whisky à Go Go, Los Angeles, Calif. 60 Jun
- White Mosque, Gaza Strip 101 Jun
- White Oak Plantation, Fla.: Florida panther breeding program 43, 51, 57 Apr; Woodcutting 50 Apr
- Whitefish see omul
- White-tailed deer: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb
- Whittington, George 70, 71 Mar
- Who Are the Palestinians? By Tad Szulc. Photos by Joanna B. Pinneo. 84-113, Jun
- Why Pronghorn Play So Long and So Fast. Geographica. May
- Wiedel, Joe: *Maps for the Blind Have a Different Feel*. Geographica. Jun
- Wild Asian Horse to Return Home. Geographica. Mar
- Wild turkeys: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb
- Wilder, Alan 122 Jun
- Wildlife: *Africa's Skeleton Coast*. By Des and Jen Bartlett. 54-85, Jan; *Black Bear of a Different Color Needs Protection*. Earth Almanac. Jan; *Captives in the Wild*. By Craig Packer. NGS research grant. 122-136, Apr; *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May; *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, Jan; see also Endangered and threatened species; Primates
- Wildlife Institute of India 18, 19 May
- Wildlife introduction: *Alien to Olympic Park, Mountain Goats May Go*. Earth Almanac. Jun; *No Quarter: Australia Targets Alien Animals*. Earth Almanac. Feb
- Wildlife management: *Eastern Wildlife—Bittersweet Success*. By James Conaway. Portfolio text by Michael Kenna. Photos by Raymond Gehman. 66-89, Feb; *India's Wildlife Dilemma*. By Geoffrey C. Ward. Photos by Raghu Rai. 2-29, May; *Last Refuge of the Monk Seal*. By Diane Ackerman. Photos by Bill Curtsinger. 128-144, Jan; *Power to the Prairie on an Iowa Refuge*. Earth Almanac. Mar; see also Okefenokee National Wildlife Refuge
- Wildlife reintroduction: Apes 41-42 Mar; *Red Wolves Return to Smoky*
- Mountains. Earth Almanac. May; *Wild Asian Horse to Return Home*. Geographica. Mar
- Wildlife trade: Chimpanzees 25, 27 Mar; *Extra Exploitation—Orangutan Skulls for Sale*. Earth Almanac. Mar; Orangutans 41, orphans 40-41 Mar
- Wildt, David 133 Apr
- Wiley, Gordon 117, 118 Jan
- Wiley, Herbert V. 117, 117, 118, 127 Jan
- Will the Nile Delta Sink Into the Sea? Geographica. Feb
- William Creek, South Australia, Australia: Population 77 Apr; Pub 77, 88-89 Apr
- Williams, Esther 53 Jun
- Williams, Harold M. 67 Jun
- Willinger, Marian: *Can Seal Pup Biology Help Save Infant Lives?* Geographica. Apr
- Willson, George 57 Apr
- Wilpoorinna Station, South Australia, Australia 77 Apr
- Wilson, Don 76 Feb
- Winaywayna, Peru: Garden terraces 113 Feb
- Wine: Brandy distillation 6, 7 Feb; Champagne 28 Feb; French drinking habits 11, 19 Feb; Origins 5, 9 Feb; Refinery 32-33 Feb; Republic of Georgia 99, 104, 110 May; Ritual use 7, 9, 23 Feb
- Wine making: Aging with oak 19 Feb; *Ancient Wine: Piecing Together the Evidence*. Geographica. Mar; Largest wine maker 33 Feb; Refinery 32-33 Feb; see also Vineyards
- Wine stewards: Training 20 Feb
- Winters, Ron 9 Mar
- Wise, Michael: *Dead Sea Scroll Edits the Story of the Flood*. Geographica. Apr
- Wittenberg, Boris 44 Feb
- Woehle, Dean 53-54 Apr
- Wolinsky, Cary, photographer: *Douglas MacArthur: An American Soldier*. By Geoffrey C. Ward. 54-83, Mar
- Wolper, David: Star on Hollywood Walk of Fame 55 Jun
- Wolves: *Red Wolves Return to Smoky Mountains*. Earth Almanac. May
- Woman's Christian Temperance Union 11 Feb
- Wood, Kevin 112 Apr
- Wood, William: Comment on black bears 78 Feb
- Wood alcohol (methanol) 7 Feb; Consumption during Prohibition 11 Feb
- Woods, Norman 125, 126 Mar
- Woolly mammoths: *Mammoth Lode of Ivory From the Pleistocene*. Earth Almanac. Jan
- World Ocean Floors map series: *Pacific Ocean; Indian Ocean*. Jun
- World Trade Center, New York, N. Y.: Viewed from Long Island marsh 67, cover. Feb
- World War I: Cemetery, France 63 Mar; U. S. Army division 62-63 Mar; Veterans 65 Mar
- World War II: Blimps 117, 127 Jan; *Douglas MacArthur: An American Soldier*. By Geoffrey C. Ward. Photos by Cary Wolinsky. 54-83, Mar; Ukrainian female veterans 34-35 Jun

World Wildlife Fund: Conservation project, India 28 *May*  
**The World's Great Lake.** By Don Belt. Photos by Sarah Leen. 2-39, *Jun*  
 Wrangham, Richard 33, 35 *Mar*  
 Wreck Beach, Vancouver, British Columbia: Nude bathers 113 *Apr*  
 Wylie, James A., Jr.: **Biopesticides Take Aim With Natural Allies.** Earth Almanac. *Feb*  
 Wyoming: **Where Buffalo Roamed—and Died.** Geographica. *Feb*

## X

Xinjiang Province, China: **Chinese Desert Fossils Locate an Ancient Sea.** Geographica. *May*

## Y

Yale University Golf Course, New Haven, Conn.: Canada geese 82-83 *Feb*  
 yatiris (ritual specialists) 92 *Mar*  
 Yeasts: Fermentation process 5, 7 *Feb*  
 "Yellow Rose of Texas": Possible origin of legendary rose 78 *May*  
 Yerkes Regional Primate Research Center, near Atlanta, Ga. 22, 24 *Mar*  
 Yeroham, Israel: Factories 58, 59 *Feb*  
 Yogananda, Paramahansa 68 *Jun*  
 Young, Charles 67 *Jun*  
 Young, Wes 50 *May*  
 Yucca: **A Breath of Fresh Air Down on the Farm.** Earth Almanac. *Mar*

## Z

Zagros Mountains, Iran-Iraq: **Ancient Wine: Piecing Together the Evidence.** Geographica. *Mar*  
 Zaire: Bonobos 13, 17, 24, 40 *Mar*;  
**Bonobos, Chimpanzees With a Difference.** By Eugene Linden. Photos by Frans Lanting. 46-53, *Mar*;  
 Mountain gorillas 3, 42 *Mar*; **Zaire's Efe People: Small From the Start.** Geographica. *Jun*  
 Zemo-Machkhaani, Republic of Georgia 98-99, 101 *May*; Resident 84-85, 110 *May*  
 Zen rock garden: Bainbridge Island, Wash. 74-75 *May*  
 Zilber, Izchok 58, 59 *Feb*

## INDEXING STAFF

Editor  
 JOLENE M. BLOZIS  
 Assistant Editor  
 ANNE K. McCAIN  
 Issue Editor  
 DIANE L. COLEMAN  
 GEORGE I. BURNESTON, III  
 BRYAN K. KNEDLER  
 ELISABETH MACRAE-BOBYNSKYJ  
 LUCINDA L. SMITH  
 SUSAN G. ZENEL





